

## Cluster

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### Nherungsmatrix

Fall	Quadiertes euklidisches Distanzma						
	1:Case 1	2:Case 2	3:Case 3	4:Case 4	5:Case 5	6:Case 6	7:Case 7
1:Case 1	,000	30,587	10,408	18,331	16,161	27,392	20,598
2:Case 2	30,587	,000	46,372	27,992	16,124	22,846	43,000
3:Case 3	10,408	46,372	,000	34,430	29,922	43,945	39,238
4:Case 4	18,331	27,992	34,430	,000	13,041	16,203	19,240
5:Case 5	16,161	16,124	29,922	13,041	,000	20,752	35,762
6:Case 6	27,392	22,846	43,945	16,203	20,752	,000	26,222
7:Case 7	20,598	43,000	39,238	19,240	35,762	26,222	,000
8:Case 8	13,918	31,200	23,456	15,415	25,405	15,775	10,169
9:Case 9	29,173	60,778	24,911	58,028	65,918	62,420	50,631
10:Case 10	21,570	16,782	34,131	12,509	14,129	17,722	31,605
11:Case 11	26,411	14,764	34,778	16,216	12,005	11,152	40,486
12:Case 12	23,910	38,494	17,422	47,747	34,896	43,427	59,137
13:Case 13	21,340	39,852	28,356	20,896	30,636	35,624	22,186
14:Case 14	11,752	27,085	16,026	17,638	14,599	22,232	24,877
15:Case 15	28,321	20,923	43,820	13,019	18,133	4,765	30,699
16:Case 16	17,453	28,216	22,107	20,354	18,943	17,303	33,295
17:Case 17	28,249	38,593	42,897	44,693	27,362	67,358	51,699
18:Case 18	23,594	58,259	24,299	37,088	53,714	61,601	40,608
19:Case 19	12,845	35,949	27,161	21,040	27,099	26,301	16,990
20:Case 20	16,558	45,015	45,055	22,926	23,786	39,744	22,357
21:Case 21	22,424	25,227	29,618	13,305	21,473	23,558	26,853
22:Case 22	20,127	23,177	27,423	17,615	19,900	12,852	36,052
23:Case 23	36,585	26,914	55,208	31,173	36,333	24,357	39,337
24:Case 24	17,963	21,502	29,655	12,980	9,821	17,689	31,118
25:Case 25	17,903	41,524	17,096	21,522	26,732	44,861	44,940
26:Case 26	16,676	36,323	25,857	7,063	20,568	21,282	17,015
27:Case 27	22,100	24,223	35,833	13,722	18,501	23,389	26,047
28:Case 28	28,798	30,103	46,517	26,676	31,713	11,561	37,783
29:Case 29	32,937	36,238	30,647	27,955	21,303	25,395	47,842
30:Case 30	14,906	27,424	32,161	12,882	17,234	18,261	22,048
31:Case 31	18,608	20,387	30,198	8,759	7,366	16,865	36,519
32:Case 32	21,082	40,523	36,766	14,884	28,404	21,426	24,086
33:Case 33	17,846	16,536	34,018	21,477	14,303	33,692	33,367
34:Case 34	58,173	32,602	59,924	64,296	50,917	55,390	69,856
35:Case 35	24,499	27,812	36,422	14,383	26,450	39,673	18,836
36:Case 36	20,177	29,650	23,916	23,323	29,930	18,722	38,460
37:Case 37	11,363	29,537	11,711	18,250	20,820	31,494	39,147
38:Case 38	29,718	26,838	31,809	22,301	19,662	30,689	53,637
39:Case 39	30,286	21,425	43,263	22,536	29,824	31,378	33,306
40:Case 41	26,250	19,210	35,200	17,368	19,268	26,352	35,669
41:Case 42	11,916	22,055	20,467	8,151	11,896	19,571	24,887
42:Case 43	13,605	30,579	28,576	14,783	25,876	24,513	26,615
43:Case 44	70,637	86,180	72,210	84,557	84,141	105,869	121,422
44:Case 45	21,754	20,023	30,462	26,664	17,721	15,071	44,187
45:Case 47	30,141	22,795	46,693	13,412	14,497	10,657	35,406
46:Case 48	27,651	47,475	42,215	36,915	28,636	54,550	43,314
47:Case 49	32,535	54,391	42,888	43,207	38,641	65,798	44,099
48:Case 50	32,934	31,162	40,885	42,290	34,717	52,361	60,718
49:Case 51	10,241	38,600	18,654	20,107	20,745	30,372	20,939
50:Case 55	29,152	10,796	41,611	14,550	12,409	9,063	37,529
51:Case 60	26,403	23,835	40,315	12,877	17,674	3,582	28,330
52:Case 61	35,115	56,052	45,322	41,902	61,804	67,306	34,678
53:Case 66	27,489	18,316	41,305	18,435	28,905	22,138	40,812
54:Case 67	20,511	41,331	23,612	11,155	23,439	33,208	32,195
55:Case 68	18,980	30,514	22,183	28,909	26,290	35,444	25,697

Dies ist eine Unhnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß						
	1:Case 1	2:Case 2	3:Case 3	4:Case 4	5:Case 5	6:Case 6	7:Case 7
56:Case 69	14,700	18,955	23,066	12,198	14,292	18,798	22,947
57:Case 70	18,870	36,066	40,836	17,843	30,487	31,035	7,164
58:Case 74	20,341	29,134	29,964	18,994	30,140	31,510	31,748
59:Case 76	13,024	17,963	25,585	10,391	17,447	17,716	18,697
60:Case 78	12,958	25,992	25,935	13,172	14,790	11,495	15,325
61:Case 79	22,269	43,695	30,618	17,204	34,322	40,460	28,079
62:Case 80	13,079	32,972	22,064	19,404	14,872	35,910	23,092

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	8:Case 8	9:Case 9	10:Case 10	11:Case 11	12:Case 12	13:Case 13
1:Case 1	13,918	29,173	21,570	26,411	23,910	21,340
2:Case 2	31,200	60,778	16,782	14,764	38,494	39,852
3:Case 3	23,456	24,911	34,131	34,778	17,422	28,356
4:Case 4	15,415	58,028	12,509	16,216	47,747	20,896
5:Case 5	25,405	65,918	14,129	12,005	34,896	30,636
6:Case 6	15,775	62,420	17,722	11,152	43,427	35,624
7:Case 7	10,169	50,631	31,605	40,486	59,137	22,186
8:Case 8	,000	40,216	19,267	22,807	37,770	10,534
9:Case 9	40,216	,000	59,373	60,716	29,209	52,796
10:Case 10	19,267	59,373	,000	12,088	42,306	21,443
11:Case 11	22,807	60,716	12,088	,000	39,282	33,080
12:Case 12	37,770	29,209	42,306	39,282	,000	47,326
13:Case 13	10,534	52,796	21,443	33,080	47,326	,000
14:Case 14	15,491	44,261	15,220	19,592	26,872	21,360
15:Case 15	16,704	65,485	15,851	6,646	44,821	31,794
16:Case 16	18,245	44,766	12,643	18,295	19,307	28,421
17:Case 17	49,016	65,266	40,310	55,328	47,102	41,884
18:Case 18	28,675	31,065	43,346	58,581	48,280	32,951
19:Case 19	13,581	45,276	19,316	28,909	42,823	14,124
20:Case 20	33,820	60,534	36,610	46,796	60,000	40,724
21:Case 21	22,926	40,279	13,283	18,683	40,839	37,179
22:Case 22	17,092	47,940	17,324	11,210	22,961	27,845
23:Case 23	31,062	55,703	19,720	29,752	47,263	45,588
24:Case 24	16,280	65,581	10,899	11,730	40,669	15,731
25:Case 25	29,600	36,409	22,631	35,887	20,132	24,681
26:Case 26	12,180	44,058	16,616	24,615	36,397	13,765
27:Case 27	22,034	64,063	20,400	19,023	52,525	20,889
28:Case 28	23,623	45,025	27,447	22,454	35,356	44,033
29:Case 29	28,531	63,471	35,428	20,716	38,434	36,131
30:Case 30	19,207	52,548	14,671	25,781	37,566	37,007
31:Case 31	23,581	63,735	10,669	7,196	40,754	33,408
32:Case 32	21,246	51,190	24,131	32,752	43,821	24,047
33:Case 33	22,896	53,951	18,279	29,240	40,585	23,850
34:Case 34	45,583	64,263	41,731	36,587	55,998	47,126
35:Case 35	20,306	52,810	20,644	31,728	52,078	13,366
36:Case 36	23,337	28,585	21,637	25,018	19,378	37,231
37:Case 37	21,547	26,777	18,205	18,846	19,905	20,803
38:Case 38	30,310	65,599	30,175	20,274	40,112	30,416
39:Case 39	20,681	51,251	13,478	26,059	49,422	20,449
40:Case 41	23,279	60,118	17,611	19,525	35,176	18,815
41:Case 42	16,592	39,452	13,259	14,251	36,050	28,101
42:Case 43	18,909	40,280	11,539	27,445	42,749	20,784
43:Case 44	97,970	67,393	90,459	95,989	67,113	99,226
44:Case 45	28,643	61,060	16,542	14,308	32,629	44,488
45:Case 47	30,352	76,102	12,105	15,659	50,361	45,118
46:Case 48	34,555	67,966	34,955	37,749	59,928	26,702
47:Case 49	39,950	69,123	46,672	55,199	53,979	26,259
48:Case 50	39,686	58,519	32,132	39,138	36,426	32,226
49:Case 51	11,569	39,016	23,065	30,183	28,533	16,813
50:Case 55	22,631	70,488	10,062	5,869	38,086	33,506
51:Case 60	19,564	62,808	14,396	10,720	43,607	34,891
52:Case 61	36,177	45,372	44,070	70,456	55,181	25,570
53:Case 66	22,148	43,461	18,157	15,584	43,159	30,801
54:Case 67	24,216	49,777	13,711	25,687	37,961	19,921
55:Case 68	21,292	42,816	23,815	31,579	25,183	18,243

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	8:Case 8	9:Case 9	10:Case 10	11:Case 11	12:Case 12	13:Case 13
56:Case 69	15,473	48,458	10,771	17,914	29,245	26,183
57:Case 70	10,362	57,724	23,560	36,677	60,168	12,504
58:Case 74	19,632	39,776	11,478	25,617	44,776	19,578
59:Case 76	13,825	41,620	8,546	14,219	39,136	21,667
60:Case 78	9,710	47,346	15,953	16,391	35,816	17,414
61:Case 79	32,327	49,225	24,509	38,186	48,099	33,095
62:Case 80	24,383	56,554	18,530	28,032	41,636	24,649

Dies ist eine Unähnlichkeitsmatrix

### Nherungsmatrix

Fall	Quadrirtes euklidisches Distanzma					
	14:Case 14	15:Case 15	16:Case 16	17:Case 17	18:Case 18	19:Case 19
1:Case 1	11,752	28,321	17,453	28,249	23,594	12,845
2:Case 2	27,085	20,923	28,216	38,593	58,259	35,949
3:Case 3	16,026	43,820	22,107	42,897	24,299	27,161
4:Case 4	17,638	13,019	20,354	44,693	37,088	21,040
5:Case 5	14,599	18,133	18,943	27,362	53,714	27,099
6:Case 6	22,232	4,765	17,303	67,358	61,601	26,301
7:Case 7	24,877	30,699	33,295	51,699	40,608	16,990
8:Case 8	15,491	16,704	18,245	49,016	28,675	13,581
9:Case 9	44,261	65,485	44,766	65,266	31,065	45,276
10:Case 10	15,220	15,851	12,643	40,310	43,346	19,316
11:Case 11	19,592	6,646	18,295	55,328	58,581	28,909
12:Case 12	26,872	44,821	19,307	47,102	48,280	42,823
13:Case 13	21,360	31,794	28,421	41,884	32,951	14,124
14:Case 14	,000	25,955	17,127	29,281	45,382	11,410
15:Case 15	25,955	,000	18,838	71,040	56,242	31,078
16:Case 16	17,127	18,838	,000	49,142	40,804	26,125
17:Case 17	29,281	71,040	49,142	,000	64,381	30,740
18:Case 18	45,382	56,242	40,804	64,381	,000	45,188
19:Case 19	11,410	31,078	26,125	30,740	45,188	,000
20:Case 20	30,354	45,791	42,622	25,770	54,588	21,993
21:Case 21	19,335	24,787	16,657	44,337	35,665	29,072
22:Case 22	19,089	9,616	8,739	60,575	43,204	29,038
23:Case 23	44,454	23,445	17,846	71,896	51,434	47,264
24:Case 24	13,525	17,347	15,853	35,902	47,678	16,508
25:Case 25	20,889	39,054	18,519	38,032	24,745	30,713
26:Case 26	14,937	19,022	14,992	48,599	33,145	20,055
27:Case 27	28,727	16,448	31,994	55,355	41,245	27,976
28:Case 28	35,368	16,326	16,723	67,899	54,841	33,062
29:Case 29	30,369	26,789	30,228	58,810	59,298	44,935
30:Case 30	15,526	22,073	14,869	42,168	38,357	26,137
31:Case 31	14,411	11,446	19,251	45,562	46,733	26,141
32:Case 32	16,268	30,615	25,870	43,797	49,593	15,388
33:Case 33	20,388	34,315	31,003	16,040	37,311	21,894
34:Case 34	48,601	55,213	45,111	55,491	82,913	52,141
35:Case 35	23,611	32,036	35,121	35,380	33,929	22,223
36:Case 36	21,460	23,140	11,704	61,716	32,868	33,430
37:Case 37	17,716	26,034	14,608	41,118	22,597	22,792
38:Case 38	28,543	25,835	35,819	53,951	43,288	42,024
39:Case 39	22,621	24,747	30,056	49,967	41,284	26,442
40:Case 41	20,335	23,775	24,708	33,757	47,901	19,004
41:Case 42	17,302	16,388	17,079	43,207	24,309	26,134
42:Case 43	16,682	27,760	22,669	40,728	28,502	13,809
43:Case 44	91,362	109,540	79,886	85,185	60,984	107,484
44:Case 45	20,997	18,872	17,295	54,616	53,769	32,621
45:Case 47	24,016	13,545	19,765	59,189	61,991	35,640
46:Case 48	38,030	50,320	39,200	27,370	61,013	26,380
47:Case 49	39,507	66,944	45,771	19,117	60,669	25,822
48:Case 50	43,652	50,090	31,398	31,638	44,577	35,703
49:Case 51	13,556	28,072	14,012	38,940	32,899	20,393
50:Case 55	21,465	5,869	17,366	53,637	57,868	30,359
51:Case 60	22,919	6,470	14,637	65,193	56,302	26,989
52:Case 61	48,069	68,941	45,981	44,887	26,446	32,113
53:Case 66	32,023	14,531	28,870	62,154	33,392	34,129
54:Case 67	13,818	31,248	18,205	38,585	37,061	17,519
55:Case 68	14,088	38,509	22,264	22,807	49,597	11,739

Dies ist eine Unhnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	14:Case 14	15:Case 15	16:Case 16	17:Case 17	18:Case 18	19:Case 19
56:Case 69	5,462	20,027	15,817	33,286	37,897	17,400
57:Case 70	27,097	28,258	32,023	43,754	34,697	14,203
58:Case 74	28,770	26,498	18,008	54,538	19,716	28,397
59:Case 76	9,330	15,845	20,191	40,251	33,844	12,593
60:Case 78	9,527	12,425	17,117	46,716	47,421	14,299
61:Case 79	19,766	41,124	33,856	43,244	36,708	19,588
62:Case 80	14,133	33,957	22,656	29,896	43,468	21,705

Dies ist eine Unähnlichkeitsmatrix

### Nherungsmatrix

Fall	Quadrirtes euklidisches Distanzma					
	20:Case 20	21:Case 21	22:Case 22	23:Case 23	24:Case 24	25:Case 25
1:Case 1	16,558	22,424	20,127	36,585	17,963	17,903
2:Case 2	45,015	25,227	23,177	26,914	21,502	41,524
3:Case 3	45,055	29,618	27,423	55,208	29,655	17,096
4:Case 4	22,926	13,305	17,615	31,173	12,980	21,522
5:Case 5	23,786	21,473	19,900	36,333	9,821	26,732
6:Case 6	39,744	23,558	12,852	24,357	17,689	44,861
7:Case 7	22,357	26,853	36,052	39,337	31,118	44,940
8:Case 8	33,820	22,926	17,092	31,062	16,280	29,600
9:Case 9	60,534	40,279	47,940	55,703	65,581	36,409
10:Case 10	36,610	13,283	17,324	19,720	10,899	22,631
11:Case 11	46,796	18,683	11,210	29,752	11,730	35,887
12:Case 12	60,000	40,839	22,961	47,263	40,669	20,132
13:Case 13	40,724	37,179	27,845	45,588	15,731	24,681
14:Case 14	30,354	19,335	19,089	44,454	13,525	20,889
15:Case 15	45,791	24,787	9,616	23,445	17,347	39,054
16:Case 16	42,622	16,657	8,739	17,846	15,853	18,519
17:Case 17	25,770	44,337	60,575	71,896	35,902	38,032
18:Case 18	54,588	35,665	43,204	51,434	47,678	24,745
19:Case 19	21,993	29,072	29,038	47,264	16,508	30,713
20:Case 20	,000	34,213	50,279	52,543	33,747	43,042
21:Case 21	34,213	,000	23,824	24,410	24,175	25,810
22:Case 22	50,279	23,824	,000	22,286	13,909	23,327
23:Case 23	52,543	24,410	22,286	,000	37,687	41,341
24:Case 24	33,747	24,175	13,909	37,687	,000	28,623
25:Case 25	43,042	25,810	23,327	41,341	28,623	,000
26:Case 26	30,526	18,731	16,107	29,864	17,105	14,935
27:Case 27	32,828	31,755	23,755	35,186	19,062	33,335
28:Case 28	44,257	27,181	16,993	24,267	26,586	42,633
29:Case 29	51,348	36,064	25,898	48,787	23,614	40,576
30:Case 30	23,699	12,691	19,305	21,599	23,453	25,426
31:Case 31	33,932	15,521	15,230	37,158	12,127	25,355
32:Case 32	25,400	28,137	23,542	42,072	18,817	28,070
33:Case 33	24,250	26,540	35,258	44,835	17,207	27,997
34:Case 34	87,069	46,758	44,878	50,175	38,736	67,437
35:Case 35	32,963	23,906	32,382	40,427	24,620	23,844
36:Case 36	47,669	19,515	11,511	22,337	27,520	19,196
37:Case 37	40,232	19,541	13,085	35,425	16,492	8,588
38:Case 38	54,103	38,458	21,801	56,622	17,210	30,291
39:Case 39	51,564	26,318	27,196	33,017	25,087	28,642
40:Case 41	40,517	28,191	22,055	47,457	11,880	24,168
41:Case 42	26,668	7,771	19,048	28,684	17,161	20,293
42:Case 43	25,829	20,342	23,344	29,051	19,352	19,815
43:Case 44	95,690	77,315	74,793	85,727	84,438	59,367
44:Case 45	43,050	25,209	15,878	26,831	20,907	36,401
45:Case 47	34,402	17,785	22,923	24,346	22,298	37,539
46:Case 48	32,885	42,773	45,679	56,217	23,636	45,698
47:Case 49	35,558	51,679	54,598	75,291	29,032	42,487
48:Case 50	53,390	42,776	36,230	50,600	24,478	32,369
49:Case 51	32,047	25,817	18,054	34,242	18,775	19,621
50:Case 55	45,287	21,076	12,482	25,851	14,492	33,200
51:Case 60	37,579	19,011	15,473	26,262	15,784	38,390
52:Case 61	47,389	44,698	52,867	53,987	46,646	31,091
53:Case 66	51,338	23,436	14,648	24,630	24,683	29,514
54:Case 67	34,917	15,775	23,813	43,034	18,225	9,935
55:Case 68	32,852	29,066	29,718	45,233	22,978	23,606

Dies ist eine Unhnlichkeitsmatrix



### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	20:Case 20	21:Case 21	22:Case 22	23:Case 23	24:Case 24	25:Case 25
56:Case 69	31,249	12,117	16,631	33,451	16,541	19,125
57:Case 70	24,512	31,339	33,515	37,862	22,833	38,187
58:Case 74	44,406	17,791	19,550	16,652	21,129	20,676
59:Case 76	28,542	11,849	17,383	29,470	16,182	23,156
60:Case 78	26,665	24,477	14,949	29,934	14,105	29,087
61:Case 79	30,256	20,307	36,313	53,437	32,786	20,520
62:Case 80	22,771	22,283	29,164	36,428	21,237	24,943

Dies ist eine Unähnlichkeitsmatrix

### Nahrungsmatrix

Fall	Quadrirtes euklidisches Distanzma					
	26:Case 26	27:Case 27	28:Case 28	29:Case 29	30:Case 30	31:Case 31
1:Case 1	16,676	22,100	28,798	32,937	14,906	18,608
2:Case 2	36,323	24,223	30,103	36,238	27,424	20,387
3:Case 3	25,857	35,833	46,517	30,647	32,161	30,198
4:Case 4	7,063	13,722	26,676	27,955	12,882	8,759
5:Case 5	20,568	18,501	31,713	21,303	17,234	7,366
6:Case 6	21,282	23,389	11,561	25,395	18,261	16,865
7:Case 7	17,015	26,047	37,783	47,842	22,048	36,519
8:Case 8	12,180	22,034	23,623	28,531	19,207	23,581
9:Case 9	44,058	64,063	45,025	63,471	52,548	63,735
10:Case 10	16,616	20,400	27,447	35,428	14,671	10,669
11:Case 11	24,615	19,023	22,454	20,716	25,781	7,196
12:Case 12	36,397	52,525	35,356	38,434	37,566	40,754
13:Case 13	13,765	20,889	44,033	36,131	37,007	33,408
14:Case 14	14,937	28,727	35,368	30,369	15,526	14,411
15:Case 15	19,022	16,448	16,326	26,789	22,073	11,446
16:Case 16	14,992	31,994	16,723	30,228	14,869	19,251
17:Case 17	48,599	55,355	67,899	58,810	42,168	45,562
18:Case 18	33,145	41,245	54,841	59,298	38,357	46,733
19:Case 19	20,055	27,976	33,062	44,935	26,137	26,141
20:Case 20	30,526	32,828	44,257	51,348	23,699	33,932
21:Case 21	18,731	31,755	27,181	36,064	12,691	15,521
22:Case 22	16,107	23,755	16,993	25,898	19,305	15,230
23:Case 23	29,864	35,186	24,267	48,787	21,599	37,158
24:Case 24	17,105	19,062	26,586	23,614	23,453	12,127
25:Case 25	14,935	33,335	42,633	40,576	25,426	25,355
26:Case 26	,000	18,942	27,561	31,604	17,418	19,589
27:Case 27	18,942	,000	40,799	25,842	29,926	18,990
28:Case 28	27,561	40,799	,000	41,229	28,174	28,914
29:Case 29	31,604	25,842	41,229	,000	38,869	29,779
30:Case 30	17,418	29,926	28,174	38,869	,000	15,187
31:Case 31	19,589	18,990	28,914	29,779	15,187	,000
32:Case 32	13,859	29,426	29,762	34,290	20,246	28,955
33:Case 33	28,050	28,289	35,321	38,818	24,936	21,774
34:Case 34	62,101	67,242	52,639	51,531	67,613	59,961
35:Case 35	14,429	15,833	50,974	44,708	29,386	26,951
36:Case 36	17,568	32,668	16,762	32,119	17,489	25,219
37:Case 37	15,079	23,179	26,870	30,024	27,040	17,042
38:Case 38	30,034	19,329	42,738	14,930	38,889	19,957
39:Case 39	18,803	29,173	36,010	56,237	30,013	24,311
40:Case 41	21,857	21,911	29,967	34,202	34,430	19,103
41:Case 42	13,712	16,529	23,942	26,622	13,206	7,614
42:Case 43	16,342	22,166	30,453	40,765	15,001	21,002
43:Case 44	86,774	95,964	88,357	74,489	78,690	92,152
44:Case 45	34,844	24,766	30,344	23,945	16,071	15,971
45:Case 47	23,221	21,082	28,067	29,891	12,205	12,043
46:Case 48	40,557	41,648	53,588	45,494	49,625	41,163
47:Case 49	43,582	49,929	61,949	52,642	57,858	54,381
48:Case 50	46,475	45,103	38,698	48,011	51,182	42,188
49:Case 51	9,356	32,107	31,290	39,004	19,075	24,966
50:Case 55	24,260	17,535	22,761	25,345	19,869	8,468
51:Case 60	17,908	19,856	11,997	27,089	19,914	13,083
52:Case 61	35,149	45,951	59,530	73,245	48,525	64,601
53:Case 66	25,523	22,005	23,546	37,867	27,105	18,614
54:Case 67	10,980	28,208	40,048	37,739	21,863	17,287
55:Case 68	23,692	30,883	42,283	35,958	31,522	33,502

Dies ist eine Unahnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	26:Case 26	27:Case 27	28:Case 28	29:Case 29	30:Case 30	31:Case 31
56:Case 69	15,662	25,094	31,934	34,109	7,542	9,712
57:Case 70	17,173	20,810	37,795	54,027	26,440	31,161
58:Case 74	16,509	21,719	31,421	42,970	22,662	25,266
59:Case 76	13,877	16,582	28,456	39,696	12,806	9,194
60:Case 78	8,278	15,235	24,632	26,855	17,088	16,669
61:Case 79	21,170	28,908	50,451	55,487	23,275	23,979
62:Case 80	18,557	19,486	53,320	34,536	17,162	21,251

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadrirtes euklidisches Distanzmaß					
	32:Case 32	33:Case 33	34:Case 34	35:Case 35	36:Case 36	37:Case 37
1:Case 1	21,082	17,846	58,173	24,499	20,177	11,363
2:Case 2	40,523	16,536	32,602	27,812	29,650	29,537
3:Case 3	36,766	34,018	59,924	36,422	23,916	11,711
4:Case 4	14,884	21,477	64,296	14,383	23,323	18,250
5:Case 5	28,404	14,303	50,917	26,450	29,930	20,820
6:Case 6	21,426	33,692	55,390	39,673	18,722	31,494
7:Case 7	24,086	33,367	69,856	18,836	38,460	39,147
8:Case 8	21,246	22,896	45,583	20,306	23,337	21,547
9:Case 9	51,190	53,951	64,263	52,810	28,585	26,777
10:Case 10	24,131	18,279	41,731	20,644	21,637	18,205
11:Case 11	32,752	29,240	36,587	31,728	25,018	18,846
12:Case 12	43,821	40,585	55,998	52,078	19,378	19,905
13:Case 13	24,047	23,850	47,126	13,366	37,231	20,803
14:Case 14	16,268	20,388	48,601	23,611	21,460	17,716
15:Case 15	30,615	34,315	55,213	32,036	23,140	26,034
16:Case 16	25,870	31,003	45,111	35,121	11,704	14,608
17:Case 17	43,797	16,040	55,491	35,380	61,716	41,118
18:Case 18	49,593	37,311	82,913	33,929	32,868	22,597
19:Case 19	15,388	21,894	52,141	22,223	33,430	22,792
20:Case 20	25,400	24,250	87,069	32,963	47,669	40,232
21:Case 21	28,137	26,540	46,758	23,906	19,515	19,541
22:Case 22	23,542	35,258	44,878	32,382	11,511	13,085
23:Case 23	42,072	44,835	50,175	40,427	22,337	35,425
24:Case 24	18,817	17,207	38,736	24,620	27,520	16,492
25:Case 25	28,070	27,997	67,437	23,844	19,196	8,588
26:Case 26	13,859	28,050	62,101	14,429	17,568	15,079
27:Case 27	29,426	28,289	67,242	15,833	32,668	23,179
28:Case 28	29,762	35,321	52,639	50,974	16,762	26,870
29:Case 29	34,290	38,818	51,531	44,708	32,119	30,024
30:Case 30	20,246	24,936	67,613	29,386	17,489	27,040
31:Case 31	28,955	21,774	59,961	26,951	25,219	17,042
32:Case 32	,000	30,512	67,165	29,022	19,366	25,261
33:Case 33	30,512	,000	46,915	21,999	34,719	24,716
34:Case 34	67,165	46,915	,000	54,108	59,097	46,163
35:Case 35	29,022	21,999	54,108	,000	39,338	23,567
36:Case 36	19,366	34,719	59,097	39,338	,000	14,186
37:Case 37	25,261	24,716	46,163	23,567	14,186	,000
38:Case 38	31,896	25,223	59,612	33,969	28,935	20,102
39:Case 39	35,255	20,585	45,434	16,473	29,504	24,483
40:Case 41	25,101	15,167	45,493	17,924	31,056	18,090
41:Case 42	27,488	17,213	56,933	20,947	17,313	12,017
42:Case 43	10,857	20,837	61,311	23,227	15,702	16,231
43:Case 44	71,801	77,315	102,442	97,616	54,421	55,952
44:Case 45	30,581	32,866	56,596	45,727	18,668	26,468
45:Case 47	26,207	31,358	73,160	36,882	22,307	33,942
46:Case 48	47,630	32,275	37,929	35,065	65,510	32,550
47:Case 49	42,531	30,470	50,066	33,479	68,124	37,109
48:Case 50	47,637	21,474	36,755	39,874	43,863	23,256
49:Case 51	26,371	26,930	51,200	23,973	25,054	17,000
50:Case 55	31,242	24,189	48,666	28,700	23,703	25,294
51:Case 60	23,534	30,822	61,357	36,347	18,194	25,987
52:Case 61	36,229	36,724	71,760	23,411	44,988	34,318
53:Case 66	32,093	27,371	45,693	25,927	19,492	16,865
54:Case 67	17,321	29,016	62,109	18,260	24,726	12,683
55:Case 68	25,685	24,776	40,898	19,317	34,330	22,962

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	32:Case 32	33:Case 33	34:Case 34	35:Case 35	36:Case 36	37:Case 37
56:Case 69	19,818	17,240	53,477	18,633	18,508	19,498
57:Case 70	29,987	22,962	62,066	12,499	43,380	32,015
58:Case 74	29,304	28,261	46,064	20,392	18,529	12,765
59:Case 76	20,253	18,817	51,180	13,591	19,606	15,467
60:Case 78	16,205	25,794	54,029	21,709	20,341	21,083
61:Case 79	21,123	33,361	86,043	18,729	30,311	22,873
62:Case 80	29,311	28,806	59,872	17,894	35,974	24,118

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadrirtes euklidisches Distanzmaß					
	38:Case 38	39:Case 39	40:Case 41	41:Case 42	42:Case 43	43:Case 44
1:Case 1	29,718	30,286	26,250	11,916	13,605	70,637
2:Case 2	26,838	21,425	19,210	22,055	30,579	86,180
3:Case 3	31,809	43,263	35,200	20,467	28,576	72,210
4:Case 4	22,301	22,536	17,368	8,151	14,783	84,557
5:Case 5	19,662	29,824	19,268	11,896	25,876	84,141
6:Case 6	30,689	31,378	26,352	19,571	24,513	105,869
7:Case 7	53,637	33,306	35,669	24,887	26,615	121,422
8:Case 8	30,310	20,681	23,279	16,592	18,909	97,970
9:Case 9	65,599	51,251	60,118	39,452	40,280	67,393
10:Case 10	30,175	13,478	17,611	13,259	11,539	90,459
11:Case 11	20,274	26,059	19,525	14,251	27,445	95,989
12:Case 12	40,112	49,422	35,176	36,050	42,749	67,113
13:Case 13	30,416	20,449	18,815	28,101	20,784	99,226
14:Case 14	28,543	22,621	20,335	17,302	16,682	91,362
15:Case 15	25,835	24,747	23,775	16,388	27,760	109,540
16:Case 16	35,819	30,056	24,708	17,079	22,669	79,886
17:Case 17	53,951	49,967	33,757	43,207	40,728	85,185
18:Case 18	43,288	41,284	47,901	24,309	28,502	60,984
19:Case 19	42,024	26,442	19,004	26,134	13,809	107,484
20:Case 20	54,103	51,564	40,517	26,668	25,829	95,690
21:Case 21	38,458	26,318	28,191	7,771	20,342	77,315
22:Case 22	21,801	27,196	22,055	19,048	23,344	74,793
23:Case 23	56,622	33,017	47,457	28,684	29,051	85,727
24:Case 24	17,210	25,087	11,880	17,161	19,352	84,438
25:Case 25	30,291	28,642	24,168	20,293	19,815	59,367
26:Case 26	30,034	18,803	21,857	13,712	16,342	86,774
27:Case 27	19,329	29,173	21,911	16,529	22,166	95,964
28:Case 28	42,738	36,010	29,967	23,942	30,453	88,357
29:Case 29	14,930	56,237	34,202	26,622	40,765	74,489
30:Case 30	38,889	30,013	34,430	13,206	15,001	78,690
31:Case 31	19,957	24,311	19,103	7,614	21,002	92,152
32:Case 32	31,896	35,255	25,101	27,488	10,857	71,801
33:Case 33	25,223	20,585	15,167	17,213	20,837	77,315
34:Case 34	59,612	45,434	45,493	56,933	61,311	102,442
35:Case 35	33,969	16,473	17,924	20,947	23,227	97,616
36:Case 36	28,935	29,504	31,056	17,313	15,702	54,421
37:Case 37	20,102	24,483	18,090	12,017	16,231	55,952
38:Case 38	,000	38,330	19,431	21,566	30,709	60,976
39:Case 39	38,330	,000	22,627	21,922	20,838	106,049
40:Case 41	19,431	22,627	,000	22,655	25,835	92,320
41:Case 42	21,566	21,922	22,655	,000	16,441	73,732
42:Case 43	30,709	20,838	25,835	16,441	,000	65,524
43:Case 44	60,976	106,049	92,320	73,732	65,524	,000
44:Case 45	26,357	42,670	33,013	20,611	21,420	78,218
45:Case 47	32,655	34,749	30,505	15,205	22,049	98,760
46:Case 48	53,360	52,163	36,639	39,018	42,982	102,585
47:Case 49	53,623	60,624	26,794	49,847	48,333	98,415
48:Case 50	35,456	44,997	17,200	38,176	38,667	66,758
49:Case 51	39,966	23,594	31,735	19,036	24,855	89,819
50:Case 55	20,699	24,114	14,279	16,450	26,288	100,625
51:Case 60	29,293	29,940	21,350	13,604	23,779	105,589
52:Case 61	59,553	43,629	33,067	46,212	30,028	76,990
53:Case 66	21,610	16,919	24,283	16,888	18,140	68,080
54:Case 67	32,682	27,468	17,747	17,582	14,964	82,749
55:Case 68	41,252	33,783	15,785	31,362	27,370	99,695

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	38:Case 38	39:Case 39	40:Case 41	41:Case 42	42:Case 43	43:Case 44
56:Case 69	26,962	18,719	17,177	12,192	15,347	87,558
57:Case 70	47,612	21,714	25,641	23,597	23,793	121,125
58:Case 74	34,117	17,325	30,283	14,912	11,381	65,561
59:Case 76	29,154	11,259	17,959	9,128	9,863	93,451
60:Case 78	29,799	19,529	24,751	15,774	17,306	103,509
61:Case 79	42,474	34,420	24,105	21,618	16,142	92,065
62:Case 80	40,128	35,111	33,737	19,068	22,812	94,907

Dies ist eine Unähnlichkeitsmatrix

### Nahrungsmatrix

Fall	Quadrirtes euklidisches Distanzma					
	44:Case 45	45:Case 47	46:Case 48	47:Case 49	48:Case 50	49:Case 51
1:Case 1	21,754	30,141	27,651	32,535	32,934	10,241
2:Case 2	20,023	22,795	47,475	54,391	31,162	38,600
3:Case 3	30,462	46,693	42,215	42,888	40,885	18,654
4:Case 4	26,664	13,412	36,915	43,207	42,290	20,107
5:Case 5	17,721	14,497	28,636	38,641	34,717	20,745
6:Case 6	15,071	10,657	54,550	65,798	52,361	30,372
7:Case 7	44,187	35,406	43,314	44,099	60,718	20,939
8:Case 8	28,643	30,352	34,555	39,950	39,686	11,569
9:Case 9	61,060	76,102	67,966	69,123	58,519	39,016
10:Case 10	16,542	12,105	34,955	46,672	32,132	23,065
11:Case 11	14,308	15,659	37,749	55,199	39,138	30,183
12:Case 12	32,629	50,361	59,928	53,979	36,426	28,533
13:Case 13	44,488	45,118	26,702	26,259	32,226	16,813
14:Case 14	20,997	24,016	38,030	39,507	43,652	13,556
15:Case 15	18,872	13,545	50,320	66,944	50,090	28,072
16:Case 16	17,295	19,765	39,200	45,771	31,398	14,012
17:Case 17	54,616	59,189	27,370	19,117	31,638	38,940
18:Case 18	53,769	61,991	61,013	60,669	44,577	32,899
19:Case 19	32,621	35,640	26,380	25,822	35,703	20,393
20:Case 20	43,050	34,402	32,885	35,558	53,390	32,047
21:Case 21	25,209	17,785	42,773	51,679	42,776	25,817
22:Case 22	15,878	22,923	45,679	54,598	36,230	18,054
23:Case 23	26,831	24,346	56,217	75,291	50,600	34,242
24:Case 24	20,907	22,298	23,636	29,032	24,478	18,775
25:Case 25	36,401	37,539	45,698	42,487	32,369	19,621
26:Case 26	34,844	23,221	40,557	43,582	46,475	9,356
27:Case 27	24,766	21,082	41,648	49,929	45,103	32,107
28:Case 28	30,344	28,067	53,588	61,949	38,698	31,290
29:Case 29	23,945	29,891	45,494	52,642	48,011	39,004
30:Case 30	16,071	12,205	49,625	57,858	51,182	19,075
31:Case 31	15,971	12,043	41,163	54,381	42,188	24,966
32:Case 32	30,581	26,207	47,630	42,531	47,637	26,371
33:Case 33	32,866	31,358	32,275	30,470	21,474	26,930
34:Case 34	56,596	73,160	37,929	50,066	36,755	51,200
35:Case 35	45,727	36,882	35,065	33,479	39,874	23,973
36:Case 36	18,668	22,307	65,510	68,124	43,863	25,054
37:Case 37	26,468	33,942	32,550	37,109	23,256	17,000
38:Case 38	26,357	32,655	53,360	53,623	35,456	39,966
39:Case 39	42,670	34,749	52,163	60,624	44,997	23,594
40:Case 41	33,013	30,505	36,639	26,794	17,200	31,735
41:Case 42	20,611	15,205	39,018	49,847	38,176	19,036
42:Case 43	21,420	22,049	42,982	48,333	38,667	24,855
43:Case 44	78,218	98,760	102,585	98,415	66,758	89,819
44:Case 45	,000	12,038	53,412	65,624	44,553	37,257
45:Case 47	12,038	,000	60,423	72,126	57,648	38,006
46:Case 48	53,412	60,423	,000	12,456	27,903	29,651
47:Case 49	65,624	72,126	12,456	,000	20,066	37,608
48:Case 50	44,553	57,648	27,903	20,066	,000	43,122
49:Case 51	37,257	38,006	29,651	37,608	43,122	,000
50:Case 55	12,223	9,167	49,180	57,694	37,025	34,079
51:Case 60	17,481	7,580	52,893	61,956	47,103	30,556
52:Case 61	67,365	69,415	51,402	31,347	30,892	42,571
53:Case 66	26,133	29,368	51,527	64,984	36,564	34,089
54:Case 67	32,993	26,626	36,220	35,057	36,837	22,297
55:Case 68	33,295	39,457	27,519	18,289	27,515	23,734

Dies ist eine Unahnlichkeitsmatrix



### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	44:Case 45	45:Case 47	46:Case 48	47:Case 49	48:Case 50	49:Case 51
56:Case 69	16,603	15,723	46,307	46,712	40,548	18,812
57:Case 70	46,168	38,953	30,631	33,886	42,647	17,817
58:Case 74	29,029	30,166	38,541	51,453	33,188	21,324
59:Case 76	19,924	17,623	41,088	49,010	42,124	19,329
60:Case 78	22,513	18,647	38,491	48,672	52,040	10,943
61:Case 79	37,093	30,726	55,833	47,605	50,637	36,250
62:Case 80	25,035	25,709	27,335	36,431	49,175	16,737

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadrirtes euklidisches Distanzmaß					
	50:Case 55	51:Case 60	52:Case 61	53:Case 66	54:Case 67	55:Case 68
1:Case 1	29,152	26,403	35,115	27,489	20,511	18,980
2:Case 2	10,796	23,835	56,052	18,316	41,331	30,514
3:Case 3	41,611	40,315	45,322	41,305	23,612	22,183
4:Case 4	14,550	12,877	41,902	18,435	11,155	28,909
5:Case 5	12,409	17,674	61,804	28,905	23,439	26,290
6:Case 6	9,063	3,582	67,306	22,138	33,208	35,444
7:Case 7	37,529	28,330	34,678	40,812	32,195	25,697
8:Case 8	22,631	19,564	36,177	22,148	24,216	21,292
9:Case 9	70,488	62,808	45,372	43,461	49,777	42,816
10:Case 10	10,062	14,396	44,070	18,157	13,711	23,815
11:Case 11	5,869	10,720	70,456	15,584	25,687	31,579
12:Case 12	38,086	43,607	55,181	43,159	37,961	25,183
13:Case 13	33,506	34,891	25,570	30,801	19,921	18,243
14:Case 14	21,465	22,919	48,069	32,023	13,818	14,088
15:Case 15	5,869	6,470	68,941	14,531	31,248	38,509
16:Case 16	17,366	14,637	45,981	28,870	18,205	22,264
17:Case 17	53,637	65,193	44,887	62,154	38,585	22,807
18:Case 18	57,868	56,302	26,446	33,392	37,061	49,597
19:Case 19	30,359	26,989	32,113	34,129	17,519	11,739
20:Case 20	45,287	37,579	47,389	51,338	34,917	32,852
21:Case 21	21,076	19,011	44,698	23,436	15,775	29,066
22:Case 22	12,482	15,473	52,867	14,648	23,813	29,718
23:Case 23	25,851	26,262	53,987	24,630	43,034	45,233
24:Case 24	14,492	15,784	46,646	24,683	18,225	22,978
25:Case 25	33,200	38,390	31,091	29,514	9,935	23,606
26:Case 26	24,260	17,908	35,149	25,523	10,980	23,692
27:Case 27	17,535	19,856	45,951	22,005	28,208	30,883
28:Case 28	22,761	11,997	59,530	23,546	40,048	42,283
29:Case 29	25,345	27,089	73,245	37,867	37,739	35,958
30:Case 30	19,869	19,914	48,525	27,105	21,863	31,522
31:Case 31	8,468	13,083	64,601	18,614	17,287	33,502
32:Case 32	31,242	23,534	36,229	32,093	17,321	25,685
33:Case 33	24,189	30,822	36,724	27,371	29,016	24,776
34:Case 34	48,666	61,357	71,760	45,693	62,109	40,898
35:Case 35	28,700	36,347	23,411	25,927	18,260	19,317
36:Case 36	23,703	18,194	44,988	19,492	24,726	34,330
37:Case 37	25,294	25,987	34,318	16,865	12,683	22,962
38:Case 38	20,699	29,293	59,553	21,610	32,682	41,252
39:Case 39	24,114	29,940	43,629	16,919	27,468	33,783
40:Case 41	14,279	21,350	33,067	24,283	17,747	15,785
41:Case 42	16,450	13,604	46,212	16,888	17,582	31,362
42:Case 43	26,288	23,779	30,028	18,140	14,964	27,370
43:Case 44	100,625	105,589	76,990	68,080	82,749	99,695
44:Case 45	12,223	17,481	67,365	26,133	32,993	33,295
45:Case 47	9,167	7,580	69,415	29,368	26,626	39,457
46:Case 48	49,180	52,893	51,402	51,527	36,220	27,519
47:Case 49	57,694	61,956	31,347	64,984	35,057	18,289
48:Case 50	37,025	47,103	30,892	36,564	36,837	27,515
49:Case 51	34,079	30,556	42,571	34,089	22,297	23,734
50:Case 55	,000	8,631	61,891	16,686	26,069	29,093
51:Case 60	8,631	,000	62,711	24,559	26,277	34,704
52:Case 61	61,891	62,711	,000	47,616	33,200	27,628
53:Case 66	16,686	24,559	47,616	,000	30,859	42,348
54:Case 67	26,069	26,277	33,200	30,859	,000	18,239
55:Case 68	29,093	34,704	27,628	42,348	18,239	,000

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	50:Case 55	51:Case 60	52:Case 61	53:Case 66	54:Case 67	55:Case 68
56:Case 69	12,624	19,029	42,262	22,663	13,669	17,812
57:Case 70	33,010	30,301	28,029	32,687	29,467	25,184
58:Case 74	28,167	27,680	29,079	14,556	20,696	34,572
59:Case 76	14,394	16,527	39,590	14,421	14,667	21,431
60:Case 78	18,395	13,148	52,066	26,050	22,846	22,052
61:Case 79	33,765	33,528	29,839	35,849	9,546	23,376
62:Case 80	29,883	33,289	45,152	41,859	19,058	18,158

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß				
	56:Case 69	57:Case 70	58:Case 74	59:Case 76	60:Case 78
1:Case 1	14,700	18,870	20,341	13,024	12,958
2:Case 2	18,955	36,066	29,134	17,963	25,992
3:Case 3	23,066	40,836	29,964	25,585	25,935
4:Case 4	12,198	17,843	18,994	10,391	13,172
5:Case 5	14,292	30,487	30,140	17,447	14,790
6:Case 6	18,798	31,035	31,510	17,716	11,495
7:Case 7	22,947	7,164	31,748	18,697	15,325
8:Case 8	15,473	10,362	19,632	13,825	9,710
9:Case 9	48,458	57,724	39,776	41,620	47,346
10:Case 10	10,771	23,560	11,478	8,546	15,953
11:Case 11	17,914	36,677	25,617	14,219	16,391
12:Case 12	29,245	60,168	44,776	39,136	35,816
13:Case 13	26,183	12,504	19,578	21,667	17,414
14:Case 14	5,462	27,097	28,770	9,330	9,527
15:Case 15	20,027	28,258	26,498	15,845	12,425
16:Case 16	15,817	32,023	18,008	20,191	17,117
17:Case 17	33,286	43,754	54,538	40,251	46,716
18:Case 18	37,897	34,697	19,716	33,844	47,421
19:Case 19	17,400	14,203	28,397	12,593	14,299
20:Case 20	31,249	24,512	44,406	28,542	26,665
21:Case 21	12,117	31,339	17,791	11,849	24,477
22:Case 22	16,631	33,515	19,550	17,383	14,949
23:Case 23	33,451	37,862	16,652	29,470	29,934
24:Case 24	16,541	22,833	21,129	16,182	14,105
25:Case 25	19,125	38,187	20,676	23,156	29,087
26:Case 26	15,662	17,173	16,509	13,877	8,278
27:Case 27	25,094	20,810	21,719	16,582	15,235
28:Case 28	31,934	37,795	31,421	28,456	24,632
29:Case 29	34,109	54,027	42,970	39,696	26,855
30:Case 30	7,542	26,440	22,662	12,806	17,088
31:Case 31	9,712	31,161	25,266	9,194	16,669
32:Case 32	19,818	29,987	29,304	20,253	16,205
33:Case 33	17,240	22,962	28,261	18,817	25,794
34:Case 34	53,477	62,066	46,064	51,180	54,029
35:Case 35	18,633	12,499	20,392	13,591	21,709
36:Case 36	18,508	43,380	18,529	19,606	20,341
37:Case 37	19,498	32,015	12,765	15,467	21,083
38:Case 38	26,962	47,612	34,117	29,154	29,799
39:Case 39	18,719	21,714	17,325	11,259	19,529
40:Case 41	17,177	25,641	30,283	17,959	24,751
41:Case 42	12,192	23,597	14,912	9,128	15,774
42:Case 43	15,347	23,793	11,381	9,863	17,306
43:Case 44	87,558	121,125	65,561	93,451	103,509
44:Case 45	16,603	46,168	29,029	19,924	22,513
45:Case 47	15,723	38,953	30,166	17,623	18,647
46:Case 48	46,307	30,631	38,541	41,088	38,491
47:Case 49	46,712	33,886	51,453	49,010	48,672
48:Case 50	40,548	42,647	33,188	42,124	52,040
49:Case 51	18,812	17,817	21,324	19,329	10,943
50:Case 55	12,624	33,010	28,167	14,394	18,395
51:Case 60	19,029	30,301	27,680	16,527	13,148
52:Case 61	42,262	28,029	29,079	39,590	52,066
53:Case 66	22,663	32,687	14,556	14,421	26,050
54:Case 67	13,669	29,467	20,696	14,667	22,846
55:Case 68	17,812	25,184	34,572	21,431	22,052

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß				
	56:Case 69	57:Case 70	58:Case 74	59:Case 76	60:Case 78
56:Case 69	,000	24,032	24,083	5,565	14,394
57:Case 70	24,032	,000	22,980	16,460	17,103
58:Case 74	24,083	22,980	,000	15,231	23,459
59:Case 76	5,565	16,460	15,231	,000	10,517
60:Case 78	14,394	17,103	23,459	10,517	,000
61:Case 79	14,386	30,068	29,928	12,711	29,916
62:Case 80	16,191	23,018	24,512	16,458	15,712

Dies ist eine Unähnlichkeitsmatrix

## Näherungsmatrix

Fall	Quadriertes euklidisches	
	61:Case 79	62:Case 80
1:Case 1	22,269	13,079
2:Case 2	43,695	32,972
3:Case 3	30,618	22,064
4:Case 4	17,204	19,404
5:Case 5	34,322	14,872
6:Case 6	40,460	35,910
7:Case 7	28,079	23,092
8:Case 8	32,327	24,383
9:Case 9	49,225	56,554
10:Case 10	24,509	18,530
11:Case 11	38,186	28,032
12:Case 12	48,099	41,636
13:Case 13	33,095	24,649
14:Case 14	19,766	14,133
15:Case 15	41,124	33,957
16:Case 16	33,856	22,656
17:Case 17	43,244	29,896
18:Case 18	36,708	43,468
19:Case 19	19,588	21,705
20:Case 20	30,256	22,771
21:Case 21	20,307	22,283
22:Case 22	36,313	29,164
23:Case 23	53,437	36,428
24:Case 24	32,786	21,237
25:Case 25	20,520	24,943
26:Case 26	21,170	18,557
27:Case 27	28,908	19,486
28:Case 28	50,451	53,320
29:Case 29	55,487	34,536
30:Case 30	23,275	17,162
31:Case 31	23,979	21,251
32:Case 32	21,123	29,311
33:Case 33	33,361	28,806
34:Case 34	86,043	59,872
35:Case 35	18,729	17,894
36:Case 36	30,311	35,974
37:Case 37	22,873	24,118
38:Case 38	42,474	40,128
39:Case 39	34,420	35,111
40:Case 41	24,105	33,737
41:Case 42	21,618	19,068
42:Case 43	16,142	22,812
43:Case 44	92,065	94,907
44:Case 45	37,093	25,035
45:Case 47	30,726	25,709
46:Case 48	55,833	27,335
47:Case 49	47,605	36,431
48:Case 50	50,637	49,175
49:Case 51	36,250	16,737
50:Case 55	33,765	29,883
51:Case 60	33,528	33,289
52:Case 61	29,839	45,152
53:Case 66	35,849	41,859
54:Case 67	9,546	19,058
55:Case 68	23,376	18,158

Dies ist eine Unähnlichkeitsmatrix

## Näherungsmatrix

Fall	Quadriertes euklidisches	
	61:Case 79	62:Case 80
56:Case 69	14,386	16,191
57:Case 70	30,068	23,018
58:Case 74	29,928	24,512
59:Case 76	12,711	16,458
60:Case 78	29,916	15,712
61:Case 79	,000	23,440
62:Case 80	23,440	,000

Dies ist eine Unähnlichkeitsmatrix

## Single Linkage

### Zuordnungsübersicht

Schritt	Zusammengeführte Cluster		Koeffizienten	Erstes Vorkommen des Clusters		Nächster Schritt
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
1	6	51	3,582	0	0	2
2	6	15	4,765	1	0	5
3	14	56	5,462	0	0	4
4	14	59	5,565	3	0	11
5	6	50	5,869	2	0	6
6	6	11	5,869	5	0	9
7	4	26	7,063	0	0	15
8	7	57	7,164	0	0	28
9	6	31	7,196	6	0	10
10	5	6	7,366	0	9	12
11	14	30	7,542	4	0	17
12	5	45	7,580	10	0	13
13	5	41	7,614	12	0	14
14	5	21	7,771	13	0	15
15	4	5	8,151	7	14	16
16	4	60	8,278	15	0	20
17	10	14	8,546	0	11	20
18	25	37	8,588	0	0	27
19	16	22	8,739	0	0	23
20	4	10	9,128	16	17	21
21	4	49	9,356	20	0	23
22	54	61	9,546	0	0	27
23	4	16	9,616	21	19	24
24	4	8	9,710	23	0	25
25	4	24	9,821	24	0	26
26	4	42	9,863	25	0	28
27	25	54	9,935	18	22	34
28	4	7	10,169	26	8	29
29	1	4	10,241	0	28	30
30	1	3	10,408	29	0	31
31	1	13	10,534	30	0	32
32	1	2	10,796	31	0	33
33	1	32	10,857	32	0	34
34	1	25	10,980	33	27	35
35	1	39	11,259	34	0	36
36	1	58	11,381	35	0	37
37	1	19	11,410	36	0	38
38	1	36	11,511	37	0	39

### Zuordnungsübersicht

Schritt	Zusammengeführte Cluster		Koeffizienten	Erstes Vorkommen des Clusters		Nächster Schritt
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
39	1	28	11,561	38	0	40
40	1	55	11,739	39	0	41
41	1	40	11,880	40	0	42
42	1	44	12,038	41	0	44
43	46	47	12,456	0	0	56
44	1	35	12,499	42	0	45
45	1	62	13,079	44	0	46
46	1	27	13,722	45	0	47
47	1	33	14,303	46	0	48
48	1	53	14,421	47	0	50
49	29	38	14,930	0	0	54
50	1	17	16,040	48	0	51
51	1	20	16,558	50	0	52
52	1	23	16,652	51	0	53
53	1	48	17,200	52	0	54
54	1	29	17,210	53	49	55
55	1	12	17,422	54	0	56
56	1	46	18,289	55	43	57
57	1	18	19,716	56	0	58
58	1	52	23,411	57	0	59
59	1	9	24,911	58	0	60
60	1	34	32,602	59	0	61
61	1	43	54,421	60	0	0



Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	43:Case 44		34:Case 34		9:Case 9		52:Case 61		18:Case 18		47:Case 49		46:Case 48		12:Case 12	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	43:Case 44		34:Case 34		9:Case 9		52:Case 61		18:Case 18		47:Case 49		46:Case 48		12:Case 12
53	X		X		X		X		X		X		X		X
54	X		X		X		X		X		X		X		X
55	X		X		X		X		X		X		X		X
56	X		X		X		X		X		X		X		X
57	X		X		X		X		X		X		X		X
58	X		X		X		X		X		X		X		X
59	X		X		X		X		X		X		X		X
60	X		X		X		X		X		X		X		X
61	X		X		X		X		X		X		X		X

Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	38:Case 38		29:Case 29		48:Case 50		23:Case 23		20:Case 20		17:Case 17		53:Case 66		33:Case 33	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	38:Case 38		29:Case 29		48:Case 50		23:Case 23		20:Case 20		17:Case 17		53:Case 66		33:Case 33	
53	X		X		X		X		X		X		X		X	
54	X		X		X		X		X		X		X		X	
55	X		X		X		X		X		X		X		X	
56	X		X		X		X		X		X		X		X	
57	X		X		X		X		X		X		X		X	
58	X		X		X		X		X		X		X		X	
59	X		X		X		X		X		X		X		X	
60	X		X		X		X		X		X		X		X	
61	X		X		X		X		X		X		X		X	

**Vertikales Eiszapfendiagramm**

Anzahl der Cluster	Fall															
	27:Case 27		62:Case 80		35:Case 35		44:Case 45		40:Case 41		55:Case 68		28:Case 28		36:Case 36	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	27:Case 27		62:Case 80		35:Case 35		44:Case 45		40:Case 41		55:Case 68		28:Case 28		36:Case 36
53	X		X		X		X		X		X		X		X
54	X		X		X		X		X		X		X		X
55	X		X		X		X		X		X		X		X
56	X		X		X		X		X		X		X		X
57	X		X		X		X		X		X		X		X
58	X		X		X		X		X		X		X		X
59	X		X		X		X		X		X		X		X
60	X		X		X		X		X		X		X		X
61	X		X		X		X		X		X		X		X

Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	19:Case 19		58:Case 74		39:Case 39		61:Case 79		54:Case 67		37:Case 37		25:Case 25		32:Case 32	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	19:Case 19		58:Case 74		39:Case 39		61:Case 79		54:Case 67		37:Case 37		25:Case 25		32:Case 32
53	X		X		X		X		X		X		X		X
54	X		X		X		X		X		X		X		X
55	X		X		X		X		X		X		X		X
56	X		X		X		X		X		X		X		X
57	X		X		X		X		X		X		X		X
58	X		X		X		X		X		X		X		X
59	X		X		X		X		X		X		X		X
60	X		X		X		X		X		X		X		X
61	X		X		X		X		X		X		X		X



**Vertikales Eiszapfendiagramm**

Anzahl der Cluster	Fall															
	2:Case 2		13:Case 13		3:Case 3		57:Case 70		7:Case 7		42:Case 43		24:Case 24		8:Case 8	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	2:Case 2		13:Case 13		3:Case 3		57:Case 70		7:Case 7		42:Case 43		24:Case 24		8:Case 8
53	X		X		X		X	X	X		X		X		X
54	X		X		X		X	X	X		X		X		X
55	X		X		X		X	X	X		X		X		X
56	X		X		X		X	X	X		X		X		X
57	X		X		X		X	X	X		X		X		X
58	X		X		X		X	X	X		X		X		X
59	X		X		X		X	X	X		X		X		X
60	X		X		X		X	X	X		X		X		X
61	X		X		X		X	X	X		X		X		X

Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	22:Case 22		16:Case 16		49:Case 51		30:Case 30		59:Case 76		56:Case 69		14:Case 14		10:Case 10	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	22:Case 22		16:Case 16		49:Case 51		30:Case 30		59:Case 76		56:Case 69		14:Case 14		10:Case 10
53	X		X		X		X		X	X	X	X	X		X
54	X		X		X		X		X	X	X	X	X		X
55	X		X		X		X		X	X	X	X	X		X
56	X		X		X		X		X	X	X	X	X		X
57	X		X		X		X		X	X	X	X	X		X
58	X		X		X		X		X	X	X	X	X		X
59	X		X		X		X		X	X	X	X	X		X
60	X		X		X		X		X		X	X	X		X
61	X		X		X		X		X		X	X	X		X

Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	60:Case 78		21:Case 21		41:Case 42		45:Case 47		31:Case 31		11:Case 11		50:Case 55		15:Case 15	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	60:Case 78		21:Case 21		41:Case 42		45:Case 47		31:Case 31		11:Case 11		50:Case 55		15:Case 15
53	X		X		X		X		X	X	X		X		X
54	X		X		X		X		X		X	X	X		X
55	X		X		X		X		X		X	X	X		X
56	X		X		X		X		X		X	X	X		X
57	X		X		X		X		X		X	X	X		X
58	X		X		X		X		X		X	X	X	X	X
59	X		X		X		X		X		X	X	X	X	X
60	X		X		X		X		X		X	X	X	X	X
61	X		X		X		X		X		X	X	X	X	X

Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall										
	51:Case 60		6:Case 6		5:Case 5		26:Case 26		4:Case 4		1:Case 1
1	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

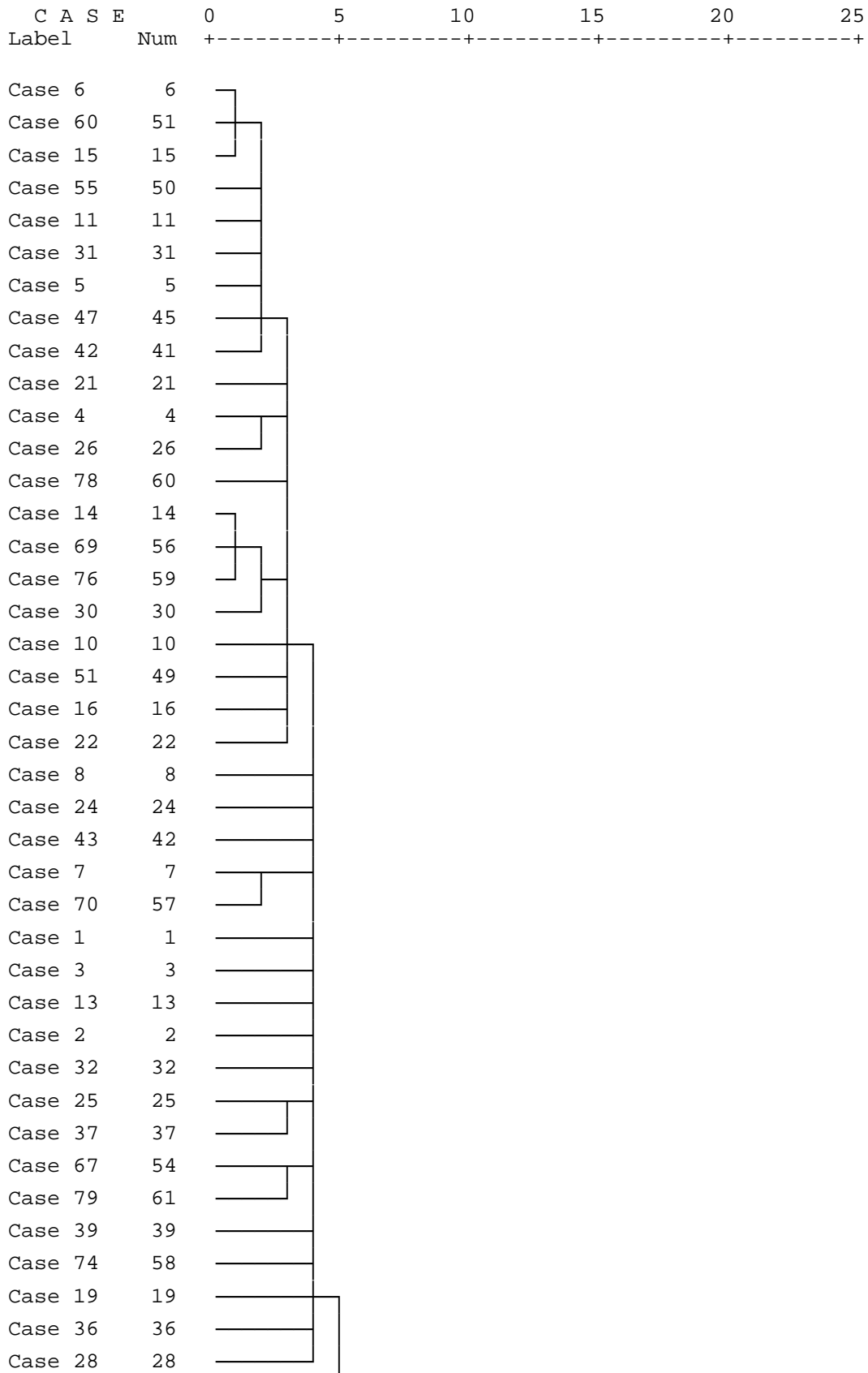
Anzahl der Cluster	Fall										
	51:Case 60		6:Case 6		5:Case 5		26:Case 26		4:Case 4		1:Case 1
53	X	X	X		X		X	X	X		X
54	X	X	X		X		X	X	X		X
55	X	X	X		X		X	X	X		X
56	X	X	X		X		X	X	X		X
57	X	X	X		X		X	X	X		X
58	X	X	X		X		X	X	X		X
59	X	X	X		X		X	X	X		X
60	X	X	X		X		X	X	X		X
61	X	X	X		X		X	X	X		X

### Dendrogramm



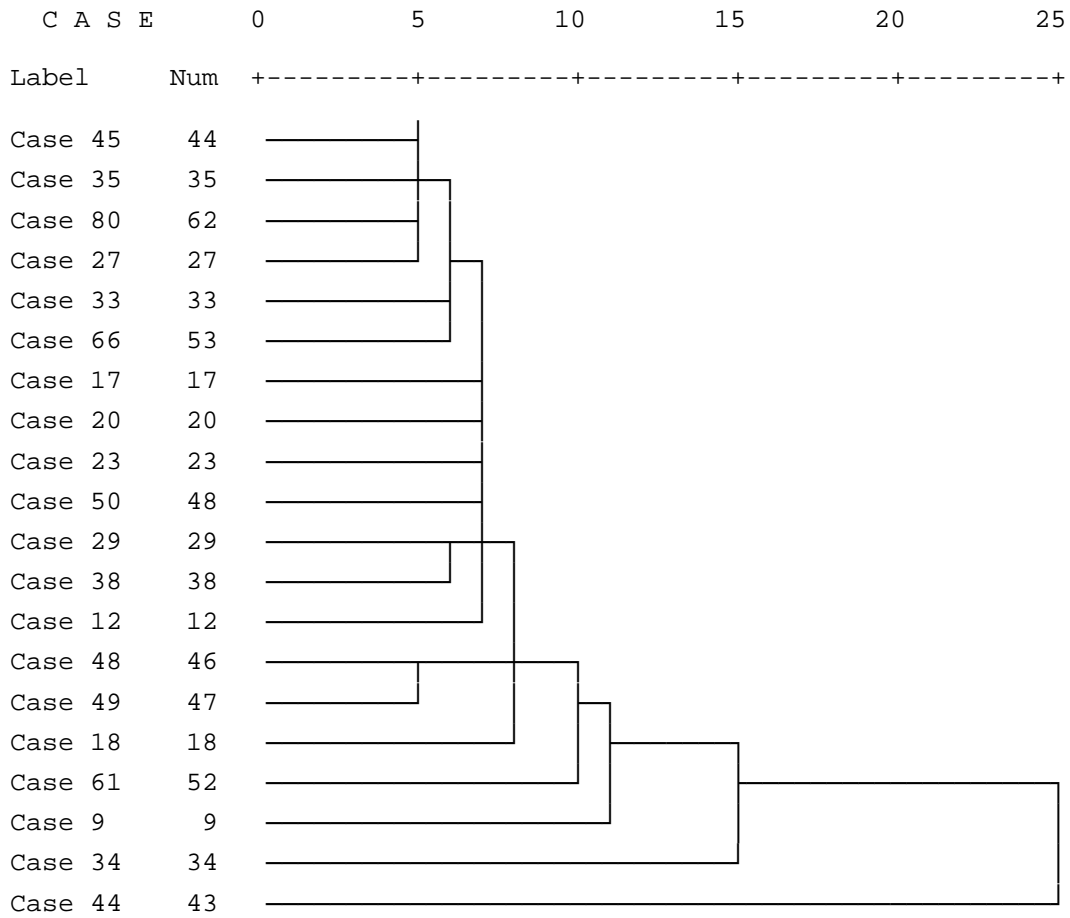
Dendrogram using Single Linkage

Rescaled Distance Cluster Combine



Case 68	55	_____
Case 41	40	_____

\*\*\*\*\* H I E R A R C H I C A L C L U S T E R A N A L Y S I S \*\*\*\*\*



**Cluster**

[DatenSet9] \\RPZMS000362\U\_muehlbs1\$\My Documents\Muehlbacher\Diss\Diss\_Kapitel\work report\_ fertigeDateien\scientists results\User Analysis\InfoType.sav

### Nherungsmatrix

Fall	Quadiertes euklidisches Distanzma						
	1:Case 1	2:Case 2	3:Case 3	4:Case 4	5:Case 5	6:Case 6	7:Case 7
1:Case 1	,000	36,546	12,905	22,532	18,803	31,534	24,547
2:Case 2	36,546	,000	57,057	33,734	20,426	27,996	49,342
3:Case 3	12,905	57,057	,000	43,528	37,699	52,549	47,517
4:Case 4	22,532	33,734	43,528	,000	15,511	18,497	21,763
5:Case 5	18,803	20,426	37,699	15,511	,000	23,792	39,859
6:Case 6	31,534	27,996	52,549	18,497	23,792	,000	27,506
7:Case 7	24,547	49,342	47,517	21,763	39,859	27,506	,000
8:Case 8	17,093	38,974	28,285	19,358	31,066	18,031	12,311
9:Case 9	27,095	19,478	43,548	15,836	17,903	20,649	35,892
10:Case 10	30,920	16,557	42,939	19,131	14,589	13,123	43,754
11:Case 11	25,904	47,178	19,723	54,985	40,548	49,873	66,118
12:Case 12	26,872	49,669	35,164	24,636	37,779	40,285	27,072
13:Case 13	14,092	31,627	21,612	20,608	16,470	24,187	27,244
14:Case 14	32,495	26,012	52,270	14,845	20,876	5,089	32,345
15:Case 15	21,597	34,831	29,053	24,039	23,050	19,887	36,908
16:Case 16	33,023	43,569	53,875	51,256	30,758	75,973	59,819
17:Case 17	16,065	42,015	34,914	24,072	30,502	28,287	18,853
18:Case 18	20,059	51,817	56,002	27,183	25,931	45,314	27,157
19:Case 19	29,462	26,858	40,061	18,874	27,693	29,378	32,417
20:Case 20	24,024	29,423	34,560	19,456	23,960	15,087	39,373
21:Case 21	45,738	30,188	68,465	38,327	44,917	30,474	46,459
22:Case 22	22,612	27,813	38,625	14,713	12,859	20,518	35,146
23:Case 23	21,070	50,227	21,228	25,214	32,108	51,490	51,941
24:Case 24	20,977	42,608	33,596	7,886	24,183	23,344	19,459
25:Case 25	25,810	30,971	41,437	16,026	22,181	27,235	30,424
26:Case 26	34,228	34,902	57,199	31,672	37,665	14,724	42,230
27:Case 27	38,345	47,185	34,986	34,164	28,520	32,603	55,740
28:Case 28	17,753	32,456	39,925	15,571	19,579	20,924	24,861
29:Case 29	21,222	24,473	37,299	10,603	8,154	19,034	39,681
30:Case 30	27,474	49,145	48,049	16,929	34,365	26,096	29,171
31:Case 31	19,974	19,792	40,081	25,835	17,194	38,697	39,022
32:Case 32	29,889	31,377	45,525	15,864	30,664	43,632	22,090
33:Case 33	24,267	34,858	28,941	28,409	36,938	24,072	44,948
34:Case 34	14,412	34,444	15,746	22,362	26,311	37,549	45,720
35:Case 35	36,293	39,398	38,167	28,984	28,682	40,905	65,083
36:Case 36	37,929	23,116	54,804	28,621	36,869	36,452	39,645
37:Case 37	30,733	25,900	43,729	18,584	22,653	29,261	39,286
38:Case 38	13,980	24,736	24,553	11,842	15,027	23,581	29,204
39:Case 39	16,924	34,499	34,588	18,013	31,069	29,156	31,961
40:Case 40	23,729	25,492	34,077	31,062	20,683	18,340	48,703
41:Case 42	34,778	27,525	55,793	15,863	16,399	12,563	38,766
42:Case 43	41,034	41,768	51,659	50,706	44,881	63,436	72,329
43:Case 44	12,492	44,196	24,608	23,011	23,415	32,561	23,268
44:Case 47	32,879	15,236	49,395	16,106	14,126	9,846	39,716
45:Case 52	30,597	28,933	48,532	15,025	20,317	4,047	30,250
46:Case 53	44,038	67,602	55,901	48,694	74,408	78,257	44,322
47:Case 58	34,198	21,927	50,687	24,246	37,567	29,369	48,908
48:Case 59	25,632	48,598	31,734	12,633	27,664	37,185	36,257
49:Case 60	22,664	37,119	28,702	32,318	29,796	38,359	28,068
50:Case 61	17,301	23,547	29,320	14,550	16,398	20,812	25,140
51:Case 62	22,565	42,274	49,530	19,936	34,030	32,604	8,144
52:Case 66	27,906	33,511	38,791	25,535	39,691	39,525	40,448
53:Case 68	16,556	19,628	33,009	13,476	20,562	20,196	21,435
54:Case 70	15,966	30,545	32,841	15,709	16,861	12,246	16,906

Dies ist eine Unhnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß						
	1:Case 1	2:Case 2	3:Case 3	4:Case 4	5:Case 5	6:Case 6	7:Case 7
55:Case 71	26,365	50,317	38,140	19,035	38,324	44,916	31,731
56:Case 72	16,258	37,981	28,571	22,548	16,441	39,531	26,332

Dies ist eine Unähnlichkeitsmatrix

### Nherungsmatrix

Fall	Quadriertes euklidisches Distanzma					
	8:Case 8	9:Case 9	10:Case 10	11:Case 11	12:Case 12	13:Case 13
1:Case 1	17,093	27,095	30,920	25,904	26,872	14,092
2:Case 2	38,974	19,478	16,557	47,178	49,669	31,627
3:Case 3	28,285	43,548	42,939	19,723	35,164	21,612
4:Case 4	19,358	15,836	19,131	54,985	24,636	20,608
5:Case 5	31,066	17,903	14,589	40,548	37,779	16,470
6:Case 6	18,031	20,649	13,123	49,873	40,285	24,187
7:Case 7	12,311	35,892	43,754	66,118	27,072	27,244
8:Case 8	,000	23,513	26,571	42,996	12,387	18,900
9:Case 9	23,513	,000	13,218	49,770	26,220	18,531
10:Case 10	26,571	13,218	,000	46,344	38,004	21,688
11:Case 11	42,996	49,770	46,344	,000	54,961	30,636
12:Case 12	12,387	26,220	38,004	54,961	,000	26,959
13:Case 13	18,900	18,531	21,688	30,636	26,959	,000
14:Case 14	18,992	18,416	8,214	51,441	36,077	27,876
15:Case 15	21,577	14,967	21,643	22,823	32,877	19,816
16:Case 16	58,408	45,947	61,144	55,299	51,909	35,128
17:Case 17	15,719	22,193	31,462	49,003	17,269	13,518
18:Case 18	41,739	43,943	53,220	68,251	50,941	35,426
19:Case 19	30,040	15,592	21,281	49,306	46,199	24,821
20:Case 20	20,321	20,795	14,344	27,327	31,148	21,067
21:Case 21	38,578	21,965	34,131	56,891	54,746	52,007
22:Case 22	20,062	14,008	14,290	48,096	18,019	16,687
23:Case 23	34,630	28,071	42,315	22,761	28,999	25,607
24:Case 24	15,495	20,200	27,708	41,482	17,054	17,444
25:Case 25	26,406	25,922	22,971	59,754	24,985	32,679
26:Case 26	28,000	31,379	26,099	41,796	50,518	41,156
27:Case 27	33,183	44,247	28,192	45,947	40,009	37,641
28:Case 28	23,876	18,163	29,792	42,259	44,707	17,248
29:Case 29	28,007	13,549	8,966	46,266	39,686	15,600
30:Case 30	27,471	30,693	39,021	52,347	28,569	21,366
31:Case 31	27,204	21,978	32,486	46,162	29,527	25,084
32:Case 32	25,069	23,154	33,850	60,243	17,548	27,068
33:Case 33	28,576	27,056	30,240	22,626	43,618	26,392
34:Case 34	26,036	22,481	22,680	23,433	24,560	22,409
35:Case 35	38,314	42,002	30,154	49,407	36,285	37,935
36:Case 36	26,912	15,921	28,115	58,579	28,489	28,011
37:Case 37	27,029	20,846	22,299	41,935	21,119	23,833
38:Case 38	20,523	16,765	16,636	40,274	34,321	20,819
39:Case 39	22,828	14,614	31,128	48,348	24,561	21,112
40:Case 40	32,363	20,322	18,035	36,551	50,323	23,016
41:Case 42	35,954	15,091	18,515	57,374	52,932	26,478
42:Case 43	47,595	39,047	47,725	46,336	37,135	55,160
43:Case 44	14,026	26,548	33,057	31,324	21,245	14,794
44:Case 47	25,613	11,591	7,139	44,197	37,948	22,886
45:Case 52	22,683	17,178	12,508	49,694	39,924	25,378
46:Case 53	43,940	52,180	80,497	65,165	30,195	59,368
47:Case 58	28,239	22,826	20,062	52,364	37,051	39,686
48:Case 59	28,576	16,383	29,290	44,136	22,800	17,166
49:Case 60	24,256	26,483	34,552	30,043	21,737	16,028
50:Case 61	19,104	13,615	20,415	33,527	32,365	5,946
51:Case 62	12,129	26,525	39,319	67,375	15,736	29,970
52:Case 66	25,985	15,022	30,346	53,392	24,971	37,040
53:Case 68	18,041	10,539	15,275	45,130	28,304	10,903
54:Case 70	12,633	19,622	18,277	40,733	22,823	10,268

Dies ist eine Unhnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	8:Case 8	9:Case 9	10:Case 10	11:Case 11	12:Case 12	13:Case 13
55:Case 71	38,381	29,174	42,694	54,187	39,399	22,557
56:Case 72	29,758	21,887	31,062	47,055	31,504	15,248

Dies ist eine Unähnlichkeitsmatrix

### Nahrungsmatrix

Fall	Quadrirtes euklidisches Distanzma					
	14:Case 14	15:Case 15	16:Case 16	17:Case 17	18:Case 18	19:Case 19
1:Case 1	32,495	21,597	33,023	16,065	20,059	29,462
2:Case 2	26,012	34,831	43,569	42,015	51,817	26,858
3:Case 3	52,270	29,053	53,875	34,914	56,002	40,061
4:Case 4	14,845	24,039	51,256	24,072	27,183	18,874
5:Case 5	20,876	23,050	30,758	30,502	25,931	27,693
6:Case 6	5,089	19,887	75,973	28,287	45,314	29,378
7:Case 7	32,345	36,908	59,819	18,853	27,157	32,417
8:Case 8	18,992	21,577	58,408	15,719	41,739	30,040
9:Case 9	18,416	14,967	45,947	22,193	43,943	15,592
10:Case 10	8,214	21,643	61,144	31,462	53,220	21,281
11:Case 11	51,441	22,823	55,299	49,003	68,251	49,306
12:Case 12	36,077	32,877	51,909	17,269	50,941	46,199
13:Case 13	27,876	19,816	35,128	13,518	35,426	24,821
14:Case 14	,000	21,493	79,751	33,216	51,750	30,429
15:Case 15	21,493	,000	56,429	28,671	50,067	21,865
16:Case 16	79,751	56,429	,000	36,051	28,643	50,592
17:Case 17	33,216	28,671	36,051	,000	26,692	35,397
18:Case 18	51,750	50,067	28,643	26,692	,000	42,743
19:Case 19	30,429	21,865	50,592	35,397	42,743	,000
20:Case 20	11,685	10,680	69,082	31,828	57,889	30,080
21:Case 21	29,818	22,605	80,486	54,579	63,550	26,138
22:Case 22	19,971	19,016	41,960	18,344	39,769	31,369
23:Case 23	45,002	22,053	45,775	36,658	51,163	33,248
24:Case 24	20,734	17,340	56,936	23,276	36,976	24,330
25:Case 25	19,903	38,416	64,826	33,146	39,270	39,624
26:Case 26	19,813	20,045	75,226	36,708	51,070	31,937
27:Case 27	34,171	38,773	70,504	53,089	61,849	47,411
28:Case 28	24,901	17,886	47,820	29,893	27,400	17,751
29:Case 29	12,923	22,726	50,955	28,966	37,657	20,807
30:Case 30	35,727	31,798	52,829	20,334	32,538	37,279
31:Case 31	39,102	36,642	18,752	25,946	27,788	31,254
32:Case 32	35,367	39,820	41,683	26,034	39,527	26,629
33:Case 33	28,694	16,433	71,757	40,634	57,519	24,543
34:Case 34	31,528	18,919	47,694	27,810	48,540	24,212
35:Case 35	35,529	47,883	67,824	53,008	66,367	52,836
36:Case 36	29,050	36,122	58,520	32,462	62,331	28,437
37:Case 37	26,255	27,471	40,301	20,918	46,339	34,677
38:Case 38	19,930	21,886	48,973	31,132	31,895	10,703
39:Case 39	32,398	27,604	46,997	18,230	32,679	24,725
40:Case 40	22,477	21,117	61,876	36,778	49,093	31,789
41:Case 42	15,499	23,404	66,856	40,241	39,122	23,127
42:Case 43	60,986	38,535	38,768	42,548	64,510	52,222
43:Case 44	30,039	15,477	44,475	22,193	37,141	31,449
44:Case 47	6,355	19,356	60,559	32,409	50,438	25,846
45:Case 52	6,983	16,822	73,698	29,478	43,039	24,379
46:Case 53	79,991	53,863	55,978	40,421	60,273	53,279
47:Case 58	21,176	37,281	71,354	41,769	62,337	27,439
48:Case 59	34,665	20,315	45,599	20,474	42,176	21,249
49:Case 60	41,652	23,643	28,148	12,797	38,599	34,397
50:Case 61	21,863	18,382	39,576	20,114	36,121	16,758
51:Case 62	29,635	34,840	50,218	14,917	29,000	37,116
52:Case 66	34,097	24,487	63,834	36,051	57,079	21,014
53:Case 68	17,963	24,175	46,324	15,695	34,332	14,082
54:Case 70	13,207	20,283	54,250	16,625	31,645	30,481

Dies ist eine Unahnlichkeitsmatrix



### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	14:Case 14	15:Case 15	16:Case 16	17:Case 17	18:Case 18	19:Case 19
55:Case 71	45,232	38,211	50,960	23,906	35,982	25,918
56:Case 72	37,476	26,149	34,774	25,103	27,052	27,513

Dies ist eine Unähnlichkeitsmatrix

### Nherungsmatrix

Fall	Quadrirtes euklidisches Distanzma					
	20:Case 20	21:Case 21	22:Case 22	23:Case 23	24:Case 24	25:Case 25
1:Case 1	24,024	45,738	22,612	21,070	20,977	25,810
2:Case 2	29,423	30,188	27,813	50,227	42,608	30,971
3:Case 3	34,560	68,465	38,625	21,228	33,596	41,437
4:Case 4	19,456	38,327	14,713	25,214	7,886	16,026
5:Case 5	23,960	44,917	12,859	32,108	24,183	22,181
6:Case 6	15,087	30,474	20,518	51,490	23,344	27,235
7:Case 7	39,373	46,459	35,146	51,941	19,459	30,424
8:Case 8	20,321	38,578	20,062	34,630	15,495	26,406
9:Case 9	20,795	21,965	14,008	28,071	20,200	25,922
10:Case 10	14,344	34,131	14,290	42,315	27,708	22,971
11:Case 11	27,327	56,891	48,096	22,761	41,482	59,754
12:Case 12	31,148	54,746	18,019	28,999	17,054	24,985
13:Case 13	21,067	52,007	16,687	25,607	17,444	32,679
14:Case 14	11,685	29,818	19,971	45,002	20,734	19,903
15:Case 15	10,680	22,605	19,016	22,053	17,340	38,416
16:Case 16	69,082	80,486	41,960	45,775	56,936	64,826
17:Case 17	31,828	54,579	18,344	36,658	23,276	33,146
18:Case 18	57,889	63,550	39,769	51,163	36,976	39,270
19:Case 19	30,080	26,138	31,369	33,248	24,330	39,624
20:Case 20	,000	28,982	15,647	26,292	16,785	27,704
21:Case 21	28,982	,000	45,858	49,651	36,255	45,577
22:Case 22	15,647	45,858	,000	33,485	19,313	22,593
23:Case 23	26,292	49,651	33,485	,000	17,782	37,849
24:Case 24	16,785	36,255	19,313	17,782	,000	21,886
25:Case 25	27,704	45,577	22,593	37,849	21,886	,000
26:Case 26	21,142	28,278	31,447	49,836	31,908	49,223
27:Case 27	33,060	62,126	29,649	46,140	37,756	28,627
28:Case 28	22,403	27,491	28,433	29,807	20,440	35,129
29:Case 29	18,021	44,950	15,057	30,073	22,314	22,075
30:Case 30	25,688	51,671	21,446	32,980	15,901	33,672
31:Case 31	41,096	50,965	21,759	32,908	33,819	33,005
32:Case 32	35,237	45,363	27,594	28,394	16,208	19,060
33:Case 33	14,533	27,560	34,041	22,035	21,039	37,381
34:Case 34	16,083	41,754	20,390	10,448	18,479	27,112
35:Case 35	29,082	73,625	24,210	35,788	37,220	22,386
36:Case 36	32,452	35,413	31,989	36,958	24,373	37,326
37:Case 37	23,726	55,361	12,408	27,994	23,306	25,248
38:Case 38	23,718	34,063	22,639	24,248	17,827	19,457
39:Case 39	26,554	33,669	23,235	22,725	19,910	25,383
40:Case 40	19,847	34,599	25,547	40,574	39,371	27,645
41:Case 42	26,898	30,725	26,852	43,535	26,330	24,411
42:Case 43	44,594	59,952	29,925	38,815	55,386	55,579
43:Case 44	19,545	40,678	21,740	23,273	11,255	37,628
44:Case 47	14,642	31,614	16,655	38,101	26,102	20,595
45:Case 52	17,963	32,393	18,599	44,368	19,903	23,159
46:Case 53	59,437	62,534	53,430	35,903	41,455	54,416
47:Case 58	20,416	29,316	31,527	35,729	31,485	28,272
48:Case 59	25,547	49,680	20,074	12,322	12,281	32,299
49:Case 60	32,719	51,912	25,443	28,230	26,437	36,289
50:Case 61	18,762	39,926	20,395	23,262	17,944	29,090
51:Case 62	36,445	44,518	25,194	44,246	19,713	25,471
52:Case 66	25,307	19,661	27,707	25,963	22,570	28,602
53:Case 68	20,418	33,758	20,556	28,927	17,064	20,728
54:Case 70	17,046	37,284	17,349	34,994	10,265	18,439

Dies ist eine Unhnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	20:Case 20	21:Case 21	22:Case 22	23:Case 23	24:Case 24	25:Case 25
55:Case 71	38,952	61,902	36,880	23,864	23,253	32,017
56:Case 72	33,100	44,267	25,214	29,941	22,018	23,242

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadrirtes euklidisches Distanzmaß					
	26:Case 26	27:Case 27	28:Case 28	29:Case 29	30:Case 30	31:Case 31
1:Case 1	34,228	38,345	17,753	21,222	27,474	19,974
2:Case 2	34,902	47,185	32,456	24,473	49,145	19,792
3:Case 3	57,199	34,986	39,925	37,299	48,049	40,081
4:Case 4	31,672	34,164	15,571	10,603	16,929	25,835
5:Case 5	37,665	28,520	19,579	8,154	34,365	17,194
6:Case 6	14,724	32,603	20,924	19,034	26,096	38,697
7:Case 7	42,230	55,740	24,861	39,681	29,171	39,022
8:Case 8	28,000	33,183	23,876	28,007	27,471	27,204
9:Case 9	31,379	44,247	18,163	13,549	30,693	21,978
10:Case 10	26,099	28,192	29,792	8,966	39,021	32,486
11:Case 11	41,796	45,947	42,259	46,266	52,347	46,162
12:Case 12	50,518	40,009	44,707	39,686	28,569	29,527
13:Case 13	41,156	37,641	17,248	15,600	21,366	25,084
14:Case 14	19,813	34,171	24,901	12,923	35,727	39,102
15:Case 15	20,045	38,773	17,886	22,726	31,798	36,642
16:Case 16	75,226	70,504	47,820	50,955	52,829	18,752
17:Case 17	36,708	53,089	29,893	28,966	20,334	25,946
18:Case 18	51,070	61,849	27,400	37,657	32,538	27,788
19:Case 19	31,937	47,411	17,751	20,807	37,279	31,254
20:Case 20	21,142	33,060	22,403	18,021	25,688	41,096
21:Case 21	28,278	62,126	27,491	44,950	51,671	50,965
22:Case 22	31,447	29,649	28,433	15,057	21,446	21,759
23:Case 23	49,836	46,140	29,807	30,073	32,980	32,908
24:Case 24	31,908	37,756	20,440	22,314	15,901	33,819
25:Case 25	49,223	28,627	35,129	22,075	33,672	33,005
26:Case 26	,000	52,346	33,836	34,454	36,762	39,499
27:Case 27	52,346	,000	48,096	37,558	41,509	44,655
28:Case 28	33,836	48,096	,000	16,953	25,533	29,399
29:Case 29	34,454	37,558	16,953	,000	34,702	25,262
30:Case 30	36,762	41,509	25,533	34,702	,000	37,956
31:Case 31	39,499	44,655	29,399	25,262	37,956	,000
32:Case 32	56,608	51,964	33,549	30,152	32,489	26,562
33:Case 33	21,955	38,366	22,257	31,088	24,369	39,975
34:Case 34	31,638	35,260	33,037	21,768	30,357	27,786
35:Case 35	56,326	17,362	49,977	28,685	38,181	32,666
36:Case 36	40,152	68,578	36,216	29,586	44,485	25,715
37:Case 37	34,030	40,653	39,427	21,961	27,733	19,841
38:Case 38	28,585	31,801	16,748	10,119	35,047	18,835
39:Case 39	35,564	45,900	18,997	25,376	14,496	23,303
40:Case 40	37,819	28,624	18,429	18,433	37,139	36,564
41:Case 42	34,551	37,634	13,828	13,554	32,186	36,664
42:Case 43	45,181	57,637	63,264	52,949	56,781	26,662
43:Case 44	34,558	47,022	21,289	27,186	31,489	31,109
44:Case 47	27,079	32,249	21,840	9,264	36,239	28,326
45:Case 52	15,120	34,136	23,067	14,962	28,840	35,826
46:Case 53	67,855	82,196	59,242	76,422	41,565	44,950
47:Case 58	29,012	46,416	34,824	25,663	39,135	31,157
48:Case 59	46,013	44,808	25,732	20,548	20,396	34,929
49:Case 60	47,187	43,339	35,210	36,860	31,172	29,887
50:Case 61	37,781	42,202	8,190	10,638	24,973	21,952
51:Case 62	41,024	62,281	29,828	33,814	35,139	27,106
52:Case 66	37,329	51,195	30,931	33,478	36,953	33,130
53:Case 68	32,909	48,812	15,150	10,787	26,378	22,530
54:Case 70	29,215	33,745	19,423	18,134	21,063	30,683

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	26:Case 26	27:Case 27	28:Case 28	29:Case 29	30:Case 30	31:Case 31
55:Case 71	58,235	63,886	25,984	26,549	24,516	39,885
56:Case 72	61,519	41,997	19,036	22,837	35,525	33,789

Dies ist eine Unähnlichkeitsmatrix

### Nahrungsmatrix

Fall	Quadrirtes euklidisches Distanzma					
	32:Case 32	33:Case 33	34:Case 34	35:Case 35	36:Case 36	37:Case 37
1:Case 1	29,889	24,267	14,412	36,293	37,929	30,733
2:Case 2	31,377	34,858	34,444	39,398	23,116	25,900
3:Case 3	45,525	28,941	15,746	38,167	54,804	43,729
4:Case 4	15,864	28,409	22,362	28,984	28,621	18,584
5:Case 5	30,664	36,938	26,311	28,682	36,869	22,653
6:Case 6	43,632	24,072	37,549	40,905	36,452	29,261
7:Case 7	22,090	44,948	45,720	65,083	39,645	39,286
8:Case 8	25,069	28,576	26,036	38,314	26,912	27,029
9:Case 9	23,154	27,056	22,481	42,002	15,921	20,846
10:Case 10	33,850	30,240	22,680	30,154	28,115	22,299
11:Case 11	60,243	22,626	23,433	49,407	58,579	41,935
12:Case 12	17,548	43,618	24,560	36,285	28,489	21,119
13:Case 13	27,068	26,392	22,409	37,935	28,011	23,833
14:Case 14	35,367	28,694	31,528	35,529	29,050	26,255
15:Case 15	39,820	16,433	18,919	47,883	36,122	27,471
16:Case 16	41,683	71,757	47,694	67,824	58,520	40,301
17:Case 17	26,034	40,634	27,810	53,008	32,462	20,918
18:Case 18	39,527	57,519	48,540	66,367	62,331	46,339
19:Case 19	26,629	24,543	24,212	52,836	28,437	34,677
20:Case 20	35,237	14,533	16,083	29,082	32,452	23,726
21:Case 21	45,363	27,560	41,754	73,625	35,413	55,361
22:Case 22	27,594	34,041	20,390	24,210	31,989	12,408
23:Case 23	28,394	22,035	10,448	35,788	36,958	27,994
24:Case 24	16,208	21,039	18,479	37,220	24,373	23,306
25:Case 25	19,060	37,381	27,112	22,386	37,326	25,248
26:Case 26	56,608	21,955	31,638	56,326	40,152	34,030
27:Case 27	51,964	38,366	35,260	17,362	68,578	40,653
28:Case 28	33,549	22,257	33,037	49,977	36,216	39,427
29:Case 29	30,152	31,088	21,768	28,685	29,586	21,961
30:Case 30	32,489	24,369	30,357	38,181	44,485	27,733
31:Case 31	26,562	39,975	27,786	32,666	25,715	19,841
32:Case 32	,000	43,851	26,667	42,035	19,838	20,349
33:Case 33	43,851	,000	16,064	35,138	34,620	36,880
34:Case 34	26,667	16,064	,000	24,958	29,329	21,233
35:Case 35	42,035	35,138	24,958	,000	52,183	26,635
36:Case 36	19,838	34,620	29,329	52,183	,000	29,271
37:Case 37	20,349	36,880	21,233	26,635	29,271	,000
38:Case 38	24,145	20,245	14,300	28,295	25,887	27,448
39:Case 39	25,877	17,655	17,935	35,757	25,111	29,676
40:Case 40	51,213	22,621	31,037	33,158	50,003	38,322
41:Case 42	40,998	28,116	40,886	43,100	41,350	34,995
42:Case 43	48,111	53,085	27,514	46,338	55,699	22,314
43:Case 44	27,782	29,764	20,887	50,281	28,740	34,561
44:Case 47	31,626	29,130	30,314	30,098	28,730	16,467
45:Case 52	40,161	23,516	31,379	39,338	35,495	23,662
46:Case 53	28,954	50,752	38,067	68,326	54,215	38,662
47:Case 58	29,541	22,680	19,516	29,159	19,265	30,839
48:Case 59	20,209	29,964	16,045	41,047	34,192	18,829
49:Case 60	22,878	40,952	27,664	52,837	40,617	18,050
50:Case 61	21,722	23,057	24,436	36,854	23,836	21,008
51:Case 62	15,624	50,630	37,454	58,686	27,304	27,675
52:Case 66	24,017	21,743	15,026	43,041	20,651	36,472
53:Case 68	15,525	23,594	19,345	39,567	13,187	22,125
54:Case 70	25,244	25,314	26,489	39,073	24,548	28,139

Dies ist eine Unahnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	32:Case 32	33:Case 33	34:Case 34	35:Case 35	36:Case 36	37:Case 37
55:Case 71	20,912	34,862	27,017	50,618	41,971	27,099
56:Case 72	21,235	42,536	29,872	50,439	42,327	38,012

Dies ist eine Unähnlichkeitsmatrix

### Nherungsmatrix

Fall	Quadrirtes euklidisches Distanzma					
	38:Case 38	39:Case 39	40:Case 40	41:Case 42	42:Case 43	43:Case 44
1:Case 1	13,980	16,924	23,729	34,778	41,034	12,492
2:Case 2	24,736	34,499	25,492	27,525	41,768	44,196
3:Case 3	24,553	34,588	34,077	55,793	51,659	24,608
4:Case 4	11,842	18,013	31,062	15,863	50,706	23,011
5:Case 5	15,027	31,069	20,683	16,399	44,881	23,415
6:Case 6	23,581	29,156	18,340	12,563	63,436	32,561
7:Case 7	29,204	31,961	48,703	38,766	72,329	23,268
8:Case 8	20,523	22,828	32,363	35,954	47,595	14,026
9:Case 9	16,765	14,614	20,322	15,091	39,047	26,548
10:Case 10	16,636	31,128	18,035	18,515	47,725	33,057
11:Case 11	40,274	48,348	36,551	57,374	46,336	31,324
12:Case 12	34,321	24,561	50,323	52,932	37,135	21,245
13:Case 13	20,819	21,112	23,016	26,478	55,160	14,794
14:Case 14	19,930	32,398	22,477	15,499	60,986	30,039
15:Case 15	21,886	27,604	21,117	23,404	38,535	15,477
16:Case 16	48,973	46,997	61,876	66,856	38,768	44,475
17:Case 17	31,132	18,230	36,778	40,241	42,548	22,193
18:Case 18	31,895	32,679	49,093	39,122	64,510	37,141
19:Case 19	10,703	24,725	31,789	23,127	52,222	31,449
20:Case 20	23,718	26,554	19,847	26,898	44,594	19,545
21:Case 21	34,063	33,669	34,599	30,725	59,952	40,678
22:Case 22	22,639	23,235	25,547	26,852	29,925	21,740
23:Case 23	24,248	22,725	40,574	43,535	38,815	23,273
24:Case 24	17,827	19,910	39,371	26,330	55,386	11,255
25:Case 25	19,457	25,383	27,645	24,411	55,579	37,628
26:Case 26	28,585	35,564	37,819	34,551	45,181	34,558
27:Case 27	31,801	45,900	28,624	37,634	57,637	47,022
28:Case 28	16,748	18,997	18,429	13,828	63,264	21,289
29:Case 29	10,119	25,376	18,433	13,554	52,949	27,186
30:Case 30	35,047	14,496	37,139	32,186	56,781	31,489
31:Case 31	18,835	23,303	36,564	36,664	26,662	31,109
32:Case 32	24,145	25,877	51,213	40,998	48,111	27,782
33:Case 33	20,245	17,655	22,621	28,116	53,085	29,764
34:Case 34	14,300	17,935	31,037	40,886	27,514	20,887
35:Case 35	28,295	35,757	33,158	43,100	46,338	50,281
36:Case 36	25,887	25,111	50,003	41,350	55,699	28,740
37:Case 37	27,448	29,676	38,322	34,995	22,314	34,561
38:Case 38	,000	18,950	23,234	18,702	46,541	22,871
39:Case 39	18,950	,000	24,362	26,971	44,385	29,522
40:Case 40	23,234	24,362	,000	14,252	55,217	41,129
41:Case 42	18,702	26,971	14,252	,000	70,996	42,117
42:Case 43	46,541	44,385	55,217	70,996	,000	51,610
43:Case 44	22,871	29,522	41,129	42,117	51,610	,000
44:Case 47	19,529	30,260	14,572	10,068	46,887	36,191
45:Case 52	17,030	28,794	20,830	9,087	57,262	33,181
46:Case 53	54,720	33,977	77,955	82,116	34,658	51,659
47:Case 58	20,230	19,837	33,430	38,075	44,138	41,240
48:Case 59	22,675	18,587	37,810	30,675	43,114	25,325
49:Case 60	36,297	32,425	37,267	43,580	34,617	25,503
50:Case 61	15,245	19,272	18,503	17,333	52,495	20,409
51:Case 62	27,962	28,461	51,062	43,005	50,353	19,678
52:Case 66	19,023	13,319	36,024	38,985	38,459	28,793
53:Case 68	11,091	12,884	23,057	20,335	53,073	22,081
54:Case 70	19,243	22,102	25,260	20,659	64,549	12,484

Dies ist eine Unhnlichkeitsmatrix



### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	38:Case 38	39:Case 39	40:Case 40	41:Case 42	42:Case 43	43:Case 44
55:Case 71	25,764	19,871	41,050	33,914	61,545	40,313
56:Case 72	22,760	27,893	27,220	27,568	61,009	19,594

Dies ist eine Unähnlichkeitsmatrix

### Nherungsmatrix

Fall	Quadrirtes euklidisches Distanzma					
	44:Case 47	45:Case 52	46:Case 53	47:Case 58	48:Case 59	49:Case 60
1:Case 1	32,879	30,597	44,038	34,198	25,632	22,664
2:Case 2	15,236	28,933	67,602	21,927	48,598	37,119
3:Case 3	49,395	48,532	55,901	50,687	31,734	28,702
4:Case 4	16,106	15,025	48,694	24,246	12,633	32,318
5:Case 5	14,126	20,317	74,408	37,567	27,664	29,796
6:Case 6	9,846	4,047	78,257	29,369	37,185	38,359
7:Case 7	39,716	30,250	44,322	48,908	36,257	28,068
8:Case 8	25,613	22,683	43,940	28,239	28,576	24,256
9:Case 9	11,591	17,178	52,180	22,826	16,383	26,483
10:Case 10	7,139	12,508	80,497	20,062	29,290	34,552
11:Case 11	44,197	49,694	65,165	52,364	44,136	30,043
12:Case 12	37,948	39,924	30,195	37,051	22,800	21,737
13:Case 13	22,886	25,378	59,368	39,686	17,166	16,028
14:Case 14	6,355	6,983	79,991	21,176	34,665	41,652
15:Case 15	19,356	16,822	53,863	37,281	20,315	23,643
16:Case 16	60,559	73,698	55,978	71,354	45,599	28,148
17:Case 17	32,409	29,478	40,421	41,769	20,474	12,797
18:Case 18	50,438	43,039	60,273	62,337	42,176	38,599
19:Case 19	25,846	24,379	53,279	27,439	21,249	34,397
20:Case 20	14,642	17,963	59,437	20,416	25,547	32,719
21:Case 21	31,614	32,393	62,534	29,316	49,680	51,912
22:Case 22	16,655	18,599	53,430	31,527	20,074	25,443
23:Case 23	38,101	44,368	35,903	35,729	12,322	28,230
24:Case 24	26,102	19,903	41,455	31,485	12,281	26,437
25:Case 25	20,595	23,159	54,416	28,272	32,299	36,289
26:Case 26	27,079	15,120	67,855	29,012	46,013	47,187
27:Case 27	32,249	34,136	82,196	46,416	44,808	43,339
28:Case 28	21,840	23,067	59,242	34,824	25,732	35,210
29:Case 29	9,264	14,962	76,422	25,663	20,548	36,860
30:Case 30	36,239	28,840	41,565	39,135	20,396	31,172
31:Case 31	28,326	35,826	44,950	31,157	34,929	29,887
32:Case 32	31,626	40,161	28,954	29,541	20,209	22,878
33:Case 33	29,130	23,516	50,752	22,680	29,964	40,952
34:Case 34	30,314	31,379	38,067	19,516	16,045	27,664
35:Case 35	30,098	39,338	68,326	29,159	41,047	52,837
36:Case 36	28,730	35,495	54,215	19,265	34,192	40,617
37:Case 37	16,467	23,662	38,662	30,839	18,829	18,050
38:Case 38	19,529	17,030	54,720	20,230	22,675	36,297
39:Case 39	30,260	28,794	33,977	19,837	18,587	32,425
40:Case 40	14,572	20,830	77,955	33,430	37,810	37,267
41:Case 42	10,068	9,087	82,116	38,075	30,675	43,580
42:Case 43	46,887	57,262	34,658	44,138	43,114	34,617
43:Case 44	36,191	33,181	51,659	41,240	25,325	25,503
44:Case 47	,000	9,231	72,334	23,615	28,421	31,393
45:Case 52	9,231	,000	73,288	32,220	29,682	37,417
46:Case 53	72,334	73,288	,000	53,500	38,037	35,353
47:Case 58	23,615	32,220	53,500	,000	37,831	51,532
48:Case 59	28,421	29,682	38,037	37,831	,000	20,092
49:Case 60	31,393	37,417	35,353	51,532	20,092	,000
50:Case 61	13,771	21,402	52,952	29,830	16,572	20,345
51:Case 62	34,764	32,243	36,251	39,770	32,488	27,088
52:Case 66	35,154	35,483	32,745	15,855	26,196	41,949
53:Case 68	16,232	19,234	49,520	18,359	18,742	25,079
54:Case 70	19,498	14,389	64,112	33,469	27,062	24,831

Dies ist eine Unhnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß					
	44:Case 47	45:Case 52	46:Case 53	47:Case 58	48:Case 59	49:Case 60
55:Case 71	36,810	37,413	36,870	43,219	11,374	27,020
56:Case 72	31,854	36,655	56,554	51,352	22,265	20,284

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß				
	50:Case 61	51:Case 62	52:Case 66	53:Case 68	54:Case 70
1:Case 1	17,301	22,565	27,906	16,556	15,966
2:Case 2	23,547	42,274	33,511	19,628	30,545
3:Case 3	29,320	49,530	38,791	33,009	32,841
4:Case 4	14,550	19,936	25,535	13,476	15,709
5:Case 5	16,398	34,030	39,691	20,562	16,861
6:Case 6	20,812	32,604	39,525	20,196	12,246
7:Case 7	25,140	8,144	40,448	21,435	16,906
8:Case 8	19,104	12,129	25,985	18,041	12,633
9:Case 9	13,615	26,525	15,022	10,539	19,622
10:Case 10	20,415	39,319	30,346	15,275	18,277
11:Case 11	33,527	67,375	53,392	45,130	40,733
12:Case 12	32,365	15,736	24,971	28,304	22,823
13:Case 13	5,946	29,970	37,040	10,903	10,268
14:Case 14	21,863	29,635	34,097	17,963	13,207
15:Case 15	18,382	34,840	24,487	24,175	20,283
16:Case 16	39,576	50,218	63,834	46,324	54,250
17:Case 17	20,114	14,917	36,051	15,695	16,625
18:Case 18	36,121	29,000	57,079	34,332	31,645
19:Case 19	16,758	37,116	21,014	14,082	30,481
20:Case 20	18,762	36,445	25,307	20,418	17,046
21:Case 21	39,926	44,518	19,661	33,758	37,284
22:Case 22	20,395	25,194	27,707	20,556	17,349
23:Case 23	23,262	44,246	25,963	28,927	34,994
24:Case 24	17,944	19,713	22,570	17,064	10,265
25:Case 25	29,090	25,471	28,602	20,728	18,439
26:Case 26	37,781	41,024	37,329	32,909	29,215
27:Case 27	42,202	62,281	51,195	48,812	33,745
28:Case 28	8,190	29,828	30,931	15,150	19,423
29:Case 29	10,638	33,814	33,478	10,787	18,134
30:Case 30	24,973	35,139	36,953	26,378	21,063
31:Case 31	21,952	27,106	33,130	22,530	30,683
32:Case 32	21,722	15,624	24,017	15,525	25,244
33:Case 33	23,057	50,630	21,743	23,594	25,314
34:Case 34	24,436	37,454	15,026	19,345	26,489
35:Case 35	36,854	58,686	43,041	39,567	39,073
36:Case 36	23,836	27,304	20,651	13,187	24,548
37:Case 37	21,008	27,675	36,472	22,125	28,139
38:Case 38	15,245	27,962	19,023	11,091	19,243
39:Case 39	19,272	28,461	13,319	12,884	22,102
40:Case 40	18,503	51,062	36,024	23,057	25,260
41:Case 42	17,333	43,005	38,985	20,335	20,659
42:Case 43	52,495	50,353	38,459	53,073	64,549
43:Case 44	20,409	19,678	28,793	22,081	12,484
44:Case 47	13,771	34,764	35,154	16,232	19,498
45:Case 52	21,402	32,243	35,483	19,234	14,389
46:Case 53	52,952	36,251	32,745	49,520	64,112
47:Case 58	29,830	39,770	15,855	18,359	33,469
48:Case 59	16,572	32,488	26,196	18,742	27,062
49:Case 60	20,345	27,088	41,949	25,079	24,831
50:Case 61	,000	26,789	31,758	6,839	15,651
51:Case 62	26,789	,000	30,431	19,471	19,393
52:Case 66	31,758	30,431	,000	20,140	32,107
53:Case 68	6,839	19,471	20,140	,000	12,321
54:Case 70	15,651	19,393	32,107	12,321	,000

Dies ist eine Unähnlichkeitsmatrix

### Näherungsmatrix

Fall	Quadriertes euklidisches Distanzmaß				
	50:Case 61	51:Case 62	52:Case 66	53:Case 68	54:Case 70
55:Case 71	16,305	34,276	37,165	15,549	33,619
56:Case 72	17,291	26,811	33,284	18,951	17,931

Dies ist eine Unähnlichkeitsmatrix

## Näherungsmatrix

Fall	Quadriertes euklidisches	
	55:Case 71	56:Case 72
1:Case 1	26,365	16,258
2:Case 2	50,317	37,981
3:Case 3	38,140	28,571
4:Case 4	19,035	22,548
5:Case 5	38,324	16,441
6:Case 6	44,916	39,531
7:Case 7	31,731	26,332
8:Case 8	38,381	29,758
9:Case 9	29,174	21,887
10:Case 10	42,694	31,062
11:Case 11	54,187	47,055
12:Case 12	39,399	31,504
13:Case 13	22,557	15,248
14:Case 14	45,232	37,476
15:Case 15	38,211	26,149
16:Case 16	50,960	34,774
17:Case 17	23,906	25,103
18:Case 18	35,982	27,052
19:Case 19	25,918	27,513
20:Case 20	38,952	33,100
21:Case 21	61,902	44,267
22:Case 22	36,880	25,214
23:Case 23	23,864	29,941
24:Case 24	23,253	22,018
25:Case 25	32,017	23,242
26:Case 26	58,235	61,519
27:Case 27	63,886	41,997
28:Case 28	25,984	19,036
29:Case 29	26,549	22,837
30:Case 30	24,516	35,525
31:Case 31	39,885	33,789
32:Case 32	20,912	21,235
33:Case 33	34,862	42,536
34:Case 34	27,017	29,872
35:Case 35	50,618	50,439
36:Case 36	41,971	42,327
37:Case 37	27,099	38,012
38:Case 38	25,764	22,760
39:Case 39	19,871	27,893
40:Case 40	41,050	27,220
41:Case 42	33,914	27,568
42:Case 43	61,545	61,009
43:Case 44	40,313	19,594
44:Case 47	36,810	31,854
45:Case 52	37,413	36,655
46:Case 53	36,870	56,554
47:Case 58	43,219	51,352
48:Case 59	11,374	22,265
49:Case 60	27,020	20,284
50:Case 61	16,305	17,291
51:Case 62	34,276	26,811
52:Case 66	37,165	33,284
53:Case 68	15,549	18,951
54:Case 70	33,619	17,931

Dies ist eine Unähnlichkeitsmatrix

## Näherungsmatrix

Fall	Quadriertes euklidisches	
	55:Case 71	56:Case 72
55:Case 71	,000	25,834
56:Case 72	25,834	,000

Dies ist eine Unähnlichkeitsmatrix

## Ward-Linkage

### Zuordnungsübersicht

Schritt	Zusammengeführte Cluster		Koeffizienten	Erstes Vorkommen des Clusters		Nächster Schritt
	Cluster 1	Cluster 2		Cluster 1	Cluster 2	
1	6	45	2,023	0	0	18
2	13	50	4,996	0	0	8
3	14	44	8,174	0	0	5
4	4	24	12,117	0	0	26
5	10	14	16,176	0	3	24
6	7	51	20,248	0	0	30
7	5	29	24,325	0	0	31
8	13	53	29,248	2	0	21
9	23	34	34,472	0	0	33
10	15	20	39,812	0	0	22
11	19	38	45,163	0	0	38
12	48	55	50,850	0	0	35
13	8	12	57,044	0	0	30
14	22	37	63,248	0	0	40
15	43	54	69,490	0	0	28
16	17	49	75,888	0	0	40
17	1	3	82,341	0	0	33
18	6	41	88,883	1	0	24
19	39	52	95,543	0	0	20
20	9	39	103,201	0	19	38
21	13	28	111,374	8	0	36
22	15	33	119,916	10	0	34
23	27	35	128,597	0	0	50
24	6	10	137,507	18	5	39
25	16	31	146,883	0	0	41
26	4	32	156,259	4	0	29
27	36	47	165,891	0	0	32
28	43	56	176,319	15	0	36
29	4	25	187,232	26	0	44
30	7	8	198,911	6	13	46
31	5	40	210,591	7	0	39
32	2	36	222,394	0	27	45
33	1	23	234,670	17	9	37
34	15	26	246,985	22	0	42
35	30	48	260,060	0	12	44
36	13	43	273,185	21	28	47
37	1	11	286,759	33	0	52
38	9	19	301,034	20	11	45
39	5	6	315,327	31	24	50
40	17	22	329,714	16	14	46
41	16	18	345,400	25	0	51
42	15	21	361,645	34	0	49
43	42	46	378,974	0	0	51
44	4	30	396,672	29	35	47
45	2	9	415,705	32	38	49
46	7	17	438,917	30	40	48
47	4	13	466,376	44	36	48
48	4	7	497,630	47	46	54
49	2	15	529,849	45	42	53
50	5	27	567,639	39	23	53
51	16	42	605,446	41	43	52
52	1	16	655,687	37	51	54
53	2	5	709,928	49	50	55
54	1	4	774,103	52	48	55
55	1	2	880,000	54	53	0



Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	35:Case 35		27:Case 27		44:Case 47		14:Case 14		10:Case 10		41:Case 42		45:Case 52		6:Case 6	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	35:Case 35		27:Case 27		44:Case 47		14:Case 14		10:Case 10		41:Case 42		45:Case 52		6:Case 6
53	X		X		X	X	X		X		X		X	X	X
54	X		X		X	X	X		X		X		X	X	X
55	X		X		X		X		X		X		X	X	X

Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	40:Case 40		29:Case 29		5:Case 5		21:Case 21		26:Case 26		33:Case 33		20:Case 20		15:Case 15	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	40:Case 40		29:Case 29		5:Case 5		21:Case 21		26:Case 26		33:Case 33		20:Case 20		15:Case 15
53	X		X		X		X		X		X		X		X
54	X		X		X		X		X		X		X		X
55	X		X		X		X		X		X		X		X

Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	38:Case 38		19:Case 19		52:Case 66		39:Case 39		9:Case 9		47:Case 58		36:Case 36		2:Case 2	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	38:Case 38		19:Case 19		52:Case 66		39:Case 39		9:Case 9		47:Case 58		36:Case 36		2:Case 2
53	X		X		X		X		X		X		X		X
54	X		X		X		X		X		X		X		X
55	X		X		X		X		X		X		X		X

Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	37:Case 37		22:Case 22		49:Case 60		17:Case 17		12:Case 12		8:Case 8		51:Case 62		7:Case 7	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	37:Case 37		22:Case 22		49:Case 60		17:Case 17		12:Case 12		8:Case 8		51:Case 62		7:Case 7
53	X		X		X		X		X		X		X		X
54	X		X		X		X		X		X		X		X
55	X		X		X		X		X		X		X		X



Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	56:Case 72		54:Case 70		43:Case 44		28:Case 28		53:Case 68		50:Case 61		13:Case 13		55:Case 71	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	56:Case 72		54:Case 70		43:Case 44		28:Case 28		53:Case 68		50:Case 61		13:Case 13		55:Case 71
53	X		X		X		X		X		X	X	X		X
54	X		X		X		X		X		X	X	X		X
55	X		X		X		X		X		X		X		X

Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	48:Case 59		30:Case 30		25:Case 25		32:Case 32		24:Case 24		4:Case 4		46:Case 53		42:Case 43	
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall															
	48:Case 59		30:Case 30		25:Case 25		32:Case 32		24:Case 24		4:Case 4		46:Case 53		42:Case 43	
53	X		X		X		X		X		X		X		X	
54	X		X		X		X		X		X		X		X	
55	X		X		X		X		X		X		X		X	

Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	18:Case 18		31:Case 31		16:Case 16		11:Case 11		34:Case 34		23:Case 23		3:Case 3		1:Case 1
1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

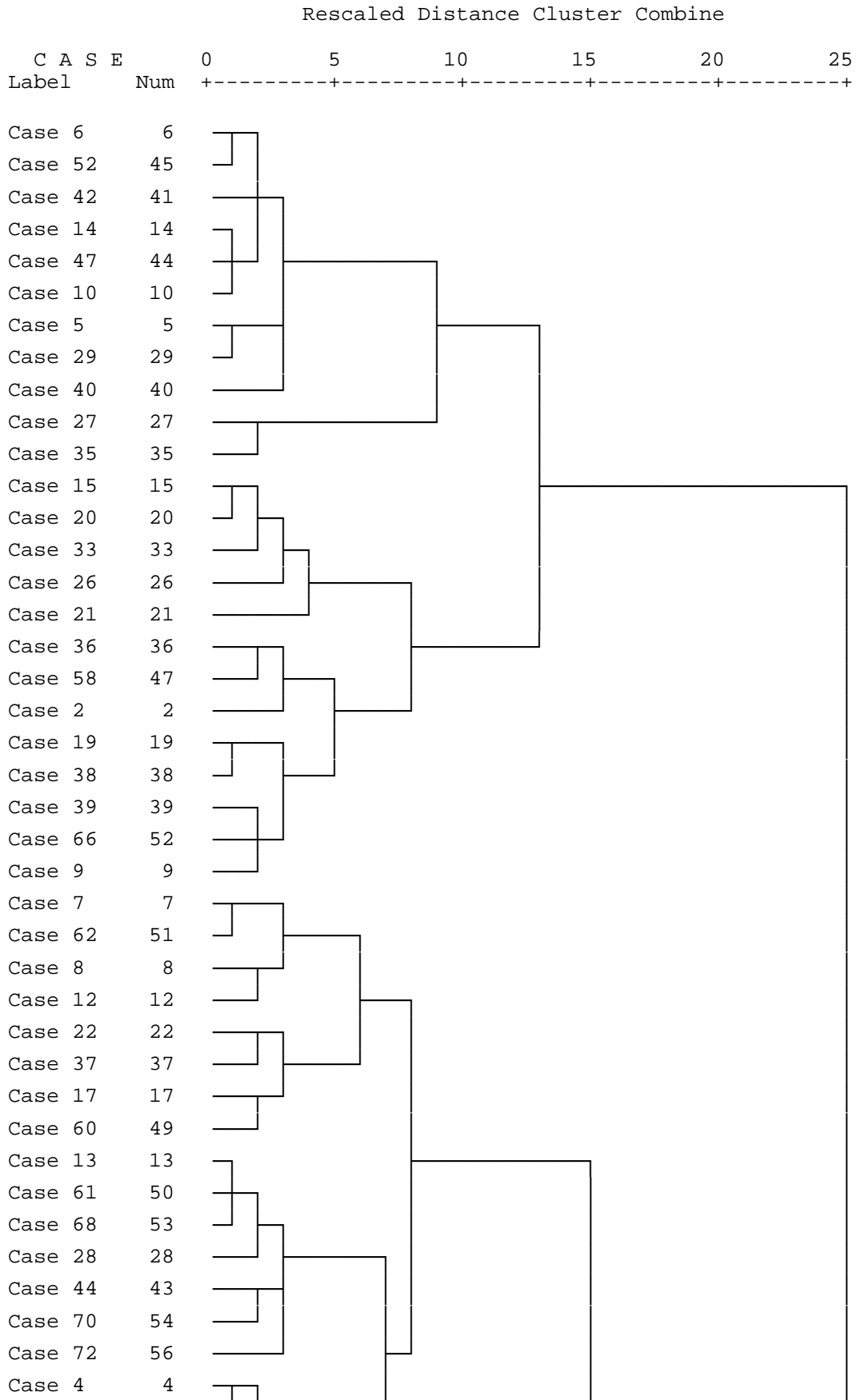
### Vertikales Eiszapfendiagramm

Anzahl der Cluster	Fall														
	18:Case 18		31:Case 31		16:Case 16		11:Case 11		34:Case 34		23:Case 23		3:Case 3		1:Case 1
53	X		X		X		X		X		X		X		X
54	X		X		X		X		X		X		X		X
55	X		X		X		X		X		X		X		X

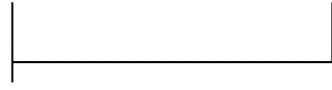
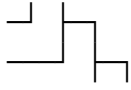
### Dendrogramm

\*\*\*\*\* H I E R A R C H I C A L C L U S T E R A N A L Y S I S \*\*\*\*\*

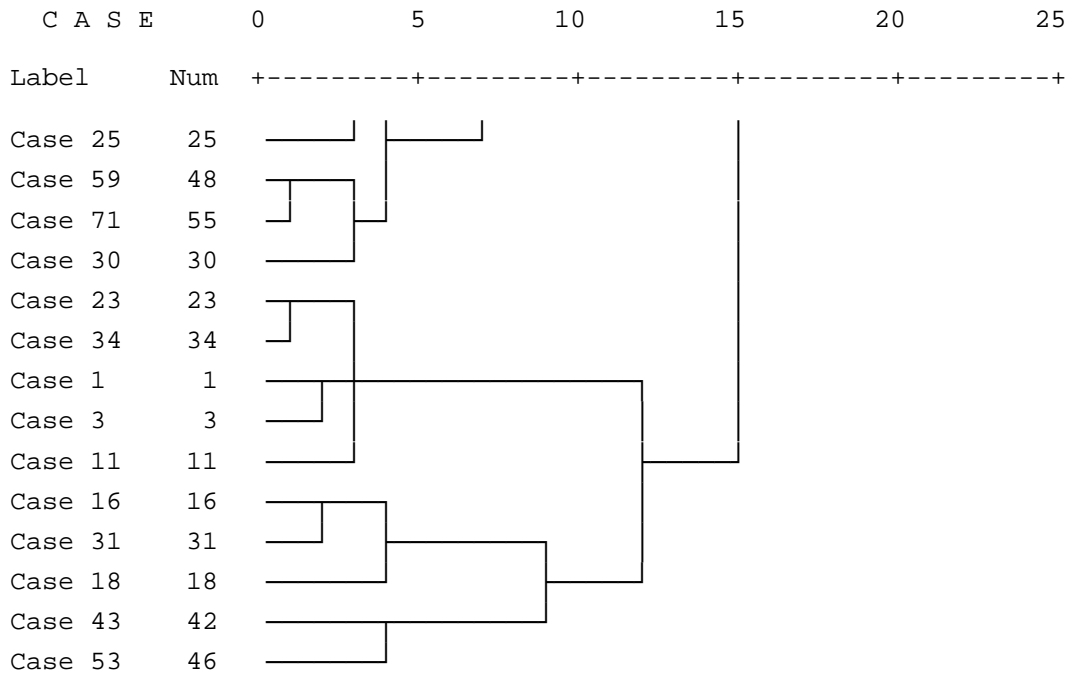
Dendrogram using Ward Method



Case 24 24  
Case 32 32







### Quick Cluster

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#### Anfängliche Clusterzentren

	Cluster		
	1	2	3
Task&Needs - Chemical Reactions	0	4	0
Task&Needs - Sequences	3	4	0
Task&Needs - Substances	0	4	2
Task&Needs - Structures	2	4	1
Task&Needs - Facts	1	4	3
Task&Needs - Literature	4	2	4
Task&Needs - Full Text	4	3	4
Task&Needs - Abstracts	4	4	3
Task&Needs - Patents	4	4	0
Task&Needs - Poster	4	4	2
Task&Needs - Reviews	4	4	4
Task&Needs - Books	2	4	4
Task&Needs - Citations	0	0	0
Task&Needs - Scientific Terms	3	0	0
Task&Needs - Synonyms	4	3	0
Task&Needs - Methods	3	3	3

### Iterationsprotokoll<sup>a</sup>

Iteration	Änderung in Clusterzentren		
	1	2	3
1	3,929	4,311	4,065
2	,323	,251	1,106
3	,114	,189	,000
4	,000	,000	,000

- a. Konvergenz wurde aufgrund geringer oder keiner Änderungen der Clusterzentren erreicht. Die maximale Änderung der absoluten Koordinaten für jedes Zentrum ist ,000. Die aktuelle Iteration lautet 4. Der Mindestabstand zwischen den anfänglichen Zentren beträgt 8,062.

### Cluster-Zugehörigkeit

Fallnummer	Cluster	Distanz
1	1	2,754
2	2	4,148
3	1	4,225
4	1	2,717
5	2	3,257
6	2	2,776
7	1	4,209
8	1	2,896
9	1	3,212
10	2	2,431
11	2	5,432
12	1	3,784
13	1	3,009
14	2	2,647
15	2	2,985
16	3	4,059
17	1	3,519
18	1	5,025
19	1	3,686
20	2	2,368
21	2	4,605
22	2	3,451
23	1	3,784
24	1	2,605
25	1	4,121
26	2	3,835
27	2	4,348
28	1	3,510
29	2	3,148
30	1	3,677
31	3	3,131
32	1	3,810
33	2	3,287
34	1	3,294
35	2	3,756
36	1	4,342
37	3	3,131
38	1	3,020
39	1	3,053
40	2	3,242
41	.	.
42	2	3,333
43	3	3,760
44	1	3,500

### Cluster-Zugehörigkeit

Fallnummer	Cluster	Distanz
45	.	.
46	.	.
47	2	2,431
48	.	.
49	.	.
50	.	.
51	.	.
52	2	2,830
53	3	4,561
54	.	.
55	.	.
56	.	.
57	.	.
58	2	3,648
59	1	3,222
60	3	3,337
61	1	2,814
62	1	3,845
63	.	.
64	.	.
65	.	.
66	1	3,510
67	.	.
68	1	2,218
69	.	.
70	1	2,884
71	1	4,193
72	1	3,404

### Clusterzentren der endgültigen Lösung

	Cluster		
	1	2	3
Task&Needs - Chemical Reactions	1	3	1
Task&Needs - Sequences	3	3	0
Task&Needs - Substances	2	4	2
Task&Needs - Structures	2	4	2
Task&Needs - Facts	2	4	3
Task&Needs - Literature	4	4	4
Task&Needs - Full Text	4	4	3
Task&Needs - Abstracts	4	4	3
Task&Needs - Patents	3	4	2
Task&Needs - Poster	3	3	3
Task&Needs - Reviews	4	3	3
Task&Needs - Books	2	2	3
Task&Needs - Citations	2	2	1
Task&Needs - Scientific Terms	2	3	2
Task&Needs - Synonyms	2	3	1
Task&Needs - Methods	3	3	2

### Distanz zwischen Clusterzentren der endgültigen Lösung

Cluster	1	2	3
1		3,654	4,131
2	3,654		5,540
3	4,131	5,540	

### ANOVA

	Cluster		Fehler		F	Sig.
	Mittel der Quadrate	df	Mittel der Quadrate	df		
Task&Needs - Chemical Reactions	36,127	2	,817	53	44,220	,000
Task&Needs - Sequences	26,649	2	,900	53	29,621	,000
Task&Needs - Substances	17,527	2	,764	53	22,936	,000
Task&Needs - Structures	22,845	2	,899	53	25,401	,000
Task&Needs - Facts	6,829	2	1,042	53	6,556	,003
Task&Needs - Literature	,045	2	,364	53	,124	,883
Task&Needs - Full Text	,232	2	,363	53	,639	,532
Task&Needs - Abstracts	,178	2	,481	53	,370	,692
Task&Needs - Patents	5,874	2	,801	53	7,331	,002
Task&Needs - Poster	,302	2	,792	53	,381	,685
Task&Needs - Reviews	,724	2	,647	53	1,120	,334
Task&Needs - Books	1,111	2	,785	53	1,415	,252
Task&Needs - Citations	,929	2	1,302	53	,713	,495
Task&Needs - Scientific Terms	2,635	2	1,364	53	1,932	,155
Task&Needs - Synonyms	5,082	2	1,058	53	4,806	,012
Task&Needs - Methods	4,741	2	,745	53	6,361	,003

Die F-Tests sollten nur für beschreibende Zwecke verwendet werden, da die Cluster so gewählt wurden, daß die Differenzen zwischen Fällen in unterschiedlichen Clustern maximiert werden. Dabei werden die beobachteten Signifikanzniveaus nicht korrigiert und können daher nicht als Tests für die Hypothese der Gleichheit der Clustermittelwerte interpretiert werden.

### Anzahl der Fälle in jedem Cluster

Cluster	1	30,000
	2	20,000
	3	6,000
Gültig		56,000
Fehlend		16,000

### Quick Cluster

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### Anfängliche Clusterzentren

	Cluster			
	1	2	3	4
Task&Needs - Chemical Reactions	0	0	3	4
Task&Needs - Sequences	3	0	2	4
Task&Needs - Substances	0	2	4	4
Task&Needs - Structures	0	1	4	4
Task&Needs - Facts	4	3	4	1
Task&Needs - Literature	4	4	2	4
Task&Needs - Full Text	3	4	2	4
Task&Needs - Abstracts	4	3	4	2
Task&Needs - Patents	4	0	3	4
Task&Needs - Poster	2	2	4	1
Task&Needs - Reviews	3	4	4	3
Task&Needs - Books	3	4	3	2
Task&Needs - Citations	3	0	3	1
Task&Needs - Scientific Terms	3	0	1	4
Task&Needs - Synonyms	2	0	2	4
Task&Needs - Methods	4	3	4	2

### Iterationsprotokoll<sup>a</sup>

Iteration	Änderung in Clusterzentren			
	1	2	3	4
1	3,691	3,298	3,233	3,755
2	,390	,731	,563	,381
3	,133	,000	,258	,000
4	,241	,912	,000	,000
5	,000	,000	,000	,000

a. Konvergenz wurde aufgrund geringer oder keiner Änderungen der Clusterzentren erreicht. Die maximale Änderung der absoluten Koordinaten für jedes Zentrum ist ,000. Die aktuelle Iteration lautet 5. Der Mindestabstand zwischen den anfänglichen Zentren beträgt 7,550.

### Cluster-Zugehörigkeit

Fallnummer	Cluster	Distanz
1	1	2,738
2	3	4,001
3	1	4,204
4	1	3,003
5	3	2,700
6	4	2,612
7	1	4,013
8	1	2,885
9	4	2,957
10	3	2,421
11	3	5,224
12	1	3,547
13	1	2,862
14	4	3,085
15	4	2,656
16	2	4,059
17	1	3,179
18	1	4,888

### Cluster-Zugehörigkeit

Fallnummer	Cluster	Distanz
19	4	3,634
20	3	2,753
21	4	3,860
22	3	3,140
23	1	3,819
24	1	2,591
25	3	3,761
26	4	3,592
27	3	4,260
28	4	3,146
29	3	2,726
30	1	3,523
31	2	3,131
32	1	3,715
33	4	2,851
34	3	3,252
35	3	2,879
36	1	4,420
37	2	3,131
38	3	3,230
39	1	3,138
40	4	3,548
41	.	.
42	4	2,797
43	2	3,760
44	1	3,423
45	.	.
46	.	.
47	3	2,753
48	.	.
49	.	.
50	.	.
51	.	.
52	4	2,429
53	2	4,561
54	.	.
55	.	.
56	.	.
57	.	.
58	3	3,526
59	1	3,220
60	2	3,337
61	1	2,952
62	1	3,697
63	.	.
64	.	.
65	.	.
66	4	3,850
67	.	.
68	1	2,444
69	.	.
70	1	2,885
71	1	4,099
72	1	3,423

### Clusterzentren der endgültigen Lösung

	Cluster			
	1	2	3	4
Task&Needs - Chemical Reactions	0	1	3	2
Task&Needs - Sequences	3	0	3	4
Task&Needs - Substances	2	2	4	4
Task&Needs - Structures	2	2	4	4
Task&Needs - Facts	2	3	3	3
Task&Needs - Literature	4	4	3	4
Task&Needs - Full Text	4	3	3	4
Task&Needs - Abstracts	4	3	4	3
Task&Needs - Patents	3	2	3	4
Task&Needs - Poster	3	3	3	2
Task&Needs - Reviews	4	3	4	3
Task&Needs - Books	2	3	3	2
Task&Needs - Citations	2	1	2	2
Task&Needs - Scientific Terms	2	2	2	3
Task&Needs - Synonyms	2	1	2	3
Task&Needs - Methods	3	2	3	3

### Distanz zwischen Clusterzentren der endgültigen Lösung

Cluster	1	2	3	4
1		4,043	3,717	3,803
2	4,043		4,952	5,865
3	3,717	4,952		2,632
4	3,803	5,865	2,632	

## ANOVA

	Cluster		Fehler		F	Sig.
	Mittel der Quadrate	df	Mittel der Quadrate	df		
Task&Needs - Chemical Reactions	22,100	3	,947	52	23,331	,000
Task&Needs - Sequences	19,974	3	,790	52	25,295	,000
Task&Needs - Substances	8,919	3	,938	52	9,504	,000
Task&Needs - Structures	18,393	3	,734	52	25,053	,000
Task&Needs - Facts	3,127	3	1,144	52	2,734	,053
Task&Needs - Literature	,489	3	,344	52	1,420	,247
Task&Needs - Full Text	,536	3	,348	52	1,539	,215
Task&Needs - Abstracts	,775	3	,452	52	1,713	,176
Task&Needs - Patents	4,466	3	,785	52	5,689	,002
Task&Needs - Poster	1,559	3	,728	52	2,140	,106
Task&Needs - Reviews	,809	3	,640	52	1,265	,296
Task&Needs - Books	1,433	3	,760	52	1,885	,144
Task&Needs - Citations	2,297	3	1,230	52	1,867	,147
Task&Needs - Scientific Terms	7,495	3	1,059	52	7,077	,000
Task&Needs - Synonyms	5,291	3	,968	52	5,466	,002
Task&Needs - Methods	3,729	3	,727	52	5,131	,003

Die F-Tests sollten nur für beschreibende Zwecke verwendet werden, da die Cluster so gewählt wurden, daß die Differenzen zwischen Fällen in unterschiedlichen Clustern maximiert werden. Dabei werden die beobachteten Signifikanzniveaus nicht korrigiert und können daher nicht als Tests für die Hypothese der Gleichheit der Clustermittelwerte interpretiert werden.

### Anzahl der Fälle in jedem Cluster

Cluster	1	23,000
	2	6,000
	3	14,000
	4	13,000
Gültig		56,000
Fehlend		16,000

### Quick Cluster

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### Anfängliche Clusterzentren

	Cluster				
	1	2	3	4	5
Task&Needs - Chemical Reactions	4	0	0	0	4
Task&Needs - Sequences	4	0	1	4	2
Task&Needs - Substances	4	0	4	1	4
Task&Needs - Structures	4	0	2	1	2
Task&Needs - Facts	1	1	2	2	4
Task&Needs - Literature	4	3	4	4	3
Task&Needs - Full Text	4	2	4	4	4
Task&Needs - Abstracts	2	3	2	4	4
Task&Needs - Patents	4	3	4	0	3
Task&Needs - Poster	1	2	3	3	2
Task&Needs - Reviews	3	2	4	4	1
Task&Needs - Books	2	2	1	4	1
Task&Needs - Citations	1	1	4	0	0
Task&Needs - Scientific Terms	4	3	2	3	0
Task&Needs - Synonyms	4	2	3	3	1
Task&Needs - Methods	2	1	3	4	4

### Iterationsprotokoll<sup>a</sup>

Iteration	Änderung in Clusterzentren				
	1	2	3	4	5
1	4,050	3,412	3,707	3,301	3,708
2	,560	,943	,624	,000	,000
3	,270	,461	,292	,000	,000
4	,000	,583	,000	,569	,000
5	,000	,591	,000	,768	,000
6	,000	,000	,175	,401	,000
7	,000	,000	,000	,000	,000

a. Konvergenz wurde aufgrund geringer oder keiner Änderungen der Clusterzentren erreicht. Die maximale Änderung der absoluten Koordinaten für jedes Zentrum ist ,000. Die aktuelle Iteration lautet 7. Der Mindestabstand zwischen den anfänglichen Zentren beträgt 7,071.

### Cluster-Zugehörigkeit

Fallnummer	Cluster	Distanz
1	4	2,577
2	1	4,285
3	5	3,175
4	3	2,341
5	3	3,365
6	1	2,316
7	4	3,760
8	3	3,062
9	3	2,587
10	1	2,687
11	5	3,708
12	2	3,333
13	3	3,122
14	1	2,316
15	1	3,152
16	2	4,726

### Cluster-Zugehörigkeit

Fallnummer	Cluster	Distanz
17	4	2,719
18	4	3,693
19	3	3,318
20	1	2,494
21	1	4,027
22	3	3,079
23	5	3,379
24	3	2,764
25	3	4,014
26	1	3,455
27	5	4,291
28	3	3,229
29	3	3,036
30	4	3,023
31	2	3,300
32	2	3,300
33	1	3,219
34	5	2,398
35	5	3,617
36	3	4,156
37	2	3,215
38	3	2,419
39	4	2,809
40	1	3,241
41	.	.
42	1	3,129
43	2	4,534
44	3	3,657
45	.	.
46	.	.
47	1	2,436
48	.	.
49	.	.
50	.	.
51	.	.
52	1	2,522
53	2	4,216
54	.	.
55	.	.
56	.	.
57	.	.
58	1	3,516
59	3	3,548
60	2	3,333
61	3	2,567
62	2	3,873
63	.	.
64	.	.
65	.	.
66	3	3,419
67	.	.
68	3	2,226
69	.	.
70	3	2,830
71	4	3,760
72	4	3,590

### Clusterzentren der endgültigen Lösung

	Cluster				
	1	2	3	4	5
Task&Needs - Chemical Reactions	3	1	1	0	3
Task&Needs - Sequences	4	1	3	4	3
Task&Needs - Substances	4	2	3	2	3
Task&Needs - Structures	4	1	3	1	3
Task&Needs - Facts	3	2	3	3	4
Task&Needs - Literature	4	4	4	4	3
Task&Needs - Full Text	4	3	4	4	3
Task&Needs - Abstracts	3	3	4	4	4
Task&Needs - Patents	4	3	4	3	3
Task&Needs - Poster	3	3	3	3	3
Task&Needs - Reviews	3	3	4	4	3
Task&Needs - Books	2	3	2	3	2
Task&Needs - Citations	2	2	2	1	2
Task&Needs - Scientific Terms	3	2	2	3	0
Task&Needs - Synonyms	3	2	2	2	2
Task&Needs - Methods	3	2	3	3	4

### Distanz zwischen Clusterzentren der endgültigen Lösung

Cluster	1	2	3	4	5
1		5,714	3,233	5,117	4,111
2	5,714		3,857	3,768	4,575
3	3,233	3,857		2,884	3,323
4	5,117	3,768	2,884		4,616
5	4,111	4,575	3,323	4,616	

## ANOVA

	Cluster		Fehler		F	Sig.
	Mittel der Quadrate	df	Mittel der Quadrate	df		
Task&Needs - Chemical Reactions	17,965	4	,857	51	20,969	,000
Task&Needs - Sequences	14,588	4	,836	51	17,453	,000
Task&Needs - Substances	9,065	4	,770	51	11,765	,000
Task&Needs - Structures	13,314	4	,786	51	16,933	,000
Task&Needs - Facts	3,339	4	1,088	51	3,068	,024
Task&Needs - Literature	2,155	4	,211	51	10,236	,000
Task&Needs - Full Text	,605	4	,339	51	1,783	,147
Task&Needs - Abstracts	,489	4	,468	51	1,045	,393
Task&Needs - Patents	2,574	4	,861	51	2,989	,027
Task&Needs - Poster	,125	4	,825	51	,152	,961
Task&Needs - Reviews	1,849	4	,555	51	3,329	,017
Task&Needs - Books	,522	4	,819	51	,637	,638
Task&Needs - Citations	2,622	4	1,184	51	2,216	,080
Task&Needs - Scientific Terms	10,354	4	,709	51	14,612	,000
Task&Needs - Synonyms	3,776	4	1,002	51	3,767	,009
Task&Needs - Methods	3,658	4	,674	51	5,431	,001

Die F-Tests sollten nur für beschreibende Zwecke verwendet werden, da die Cluster so gewählt wurden, daß die Differenzen zwischen Fällen in unterschiedlichen Clustern maximiert werden. Dabei werden die beobachteten Signifikanzniveaus nicht korrigiert und können daher nicht als Tests für die Hypothese der Gleichheit der Clustermittelwerte interpretiert werden.

### Anzahl der Fälle in jedem Cluster

Cluster	1	14,000
	2	9,000
	3	19,000
	4	8,000
	5	6,000
Gültig		56,000
Fehlend		16,000

## Diskriminanzanalyse

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### Analyse der verarbeiteten Fälle.

Ungewichtete Fälle		N	Prozent
Gültig		56	77,8
Ausgeschlossen	Gruppencodes fehlend oder außerhalb des Bereichs	0	,0
	Mindestens eine fehlende Diskriminanz-Variable	0	,0
	Beide fehlenden oder außerhalb des Bereichs liegenden Gruppencodes und mindestens eine fehlende Diskriminanz-Variable	16	22,2
	Gesamtzahl der ausgeschlossenen	16	22,2
	Gesamtzahl der Fälle	72	100,0

### Gruppenstatistik

Cluster-Nr. des Falls		Mittelwert	Standardabweichung	Gültige Werte (listenweise)	
				Ungewichtet	Gewichtet
1	Task&Needs - Chemical Reactions	,67	,711	30	30,000
	Task&Needs - Sequences	3,30	,915	30	30,000
	Task&Needs - Substances	2,27	1,048	30	30,000
	Task&Needs - Structures	2,03	1,066	30	30,000
	Task&Needs - Facts	2,43	1,165	30	30,000
	Task&Needs - Literature	3,63	,556	30	30,000
	Task&Needs - Full Text	3,57	,568	30	30,000
	Task&Needs - Abstracts	3,60	,675	30	30,000
	Task&Needs - Patents	3,47	,860	30	30,000
	Task&Needs - Poster	2,83	,874	30	30,000
	Task&Needs - Reviews	3,53	,681	30	30,000
	Task&Needs - Books	2,33	,802	30	30,000
	Task&Needs - Citations	1,93	1,112	30	30,000
	Task&Needs - Scientific Terms	2,00	1,083	30	30,000
	Task&Needs - Synonyms	2,33	,994	30	30,000
	Task&Needs - Methods	3,13	,860	30	30,000

### Gruppenstatistik

Cluster-Nr. des Falls		Mittelwert	Standardabweichung	Gültige Werte (listenweise)	
				Ungewichtet	Gewichtet
2	Task&Needs - Chemical Reactions	3,10	1,021	20	20,000
	Task&Needs - Sequences	3,35	1,089	20	20,000
	Task&Needs - Substances	3,90	,308	20	20,000
	Task&Needs - Structures	3,80	,523	20	20,000
	Task&Needs - Facts	3,50	,761	20	20,000
	Task&Needs - Literature	3,60	,681	20	20,000
	Task&Needs - Full Text	3,65	,587	20	20,000
	Task&Needs - Abstracts	3,55	,759	20	20,000
	Task&Needs - Patents	3,50	,688	20	20,000
	Task&Needs - Poster	3,05	,945	20	20,000
	Task&Needs - Reviews	3,40	,940	20	20,000
	Task&Needs - Books	2,45	1,050	20	20,000
	Task&Needs - Citations	1,90	1,165	20	20,000
	Task&Needs - Scientific Terms	2,55	1,317	20	20,000
	Task&Needs - Synonyms	2,65	1,089	20	20,000
	Task&Needs - Methods	3,20	,768	20	20,000
3	Task&Needs - Chemical Reactions	1,17	1,329	6	6,000
	Task&Needs - Sequences	,17	,408	6	6,000
	Task&Needs - Substances	2,17	1,169	6	6,000
	Task&Needs - Structures	1,50	1,378	6	6,000
	Task&Needs - Facts	2,83	,983	6	6,000
	Task&Needs - Literature	3,50	,548	6	6,000
	Task&Needs - Full Text	3,33	,816	6	6,000
	Task&Needs - Abstracts	3,33	,516	6	6,000
	Task&Needs - Patents	2,00	1,549	6	6,000
	Task&Needs - Poster	2,83	,753	6	6,000
	Task&Needs - Reviews	3,00	,894	6	6,000
	Task&Needs - Books	3,00	,632	6	6,000
	Task&Needs - Citations	1,33	1,211	6	6,000
	Task&Needs - Scientific Terms	1,67	1,033	6	6,000
	Task&Needs - Synonyms	1,17	,983	6	6,000
	Task&Needs - Methods	1,83	1,169	6	6,000

### Gruppenstatistik

Cluster-Nr. des Falls		Mittelwert	Standardabweichung	Gültige Werte (listenweise)	
				Ungewichtet	Gewichtet
Gesamt	Task&Needs - Chemical Reactions	1,59	1,449	56	56,000
	Task&Needs - Sequences	2,98	1,355	56	56,000
	Task&Needs - Substances	2,84	1,172	56	56,000
	Task&Needs - Structures	2,61	1,303	56	56,000
	Task&Needs - Facts	2,86	1,119	56	56,000
	Task&Needs - Literature	3,61	,593	56	56,000
	Task&Needs - Full Text	3,57	,599	56	56,000
	Task&Needs - Abstracts	3,55	,685	56	56,000
	Task&Needs - Patents	3,32	,993	56	56,000
	Task&Needs - Poster	2,91	,880	56	56,000
	Task&Needs - Reviews	3,43	,806	56	56,000
	Task&Needs - Books	2,45	,893	56	56,000
	Task&Needs - Citations	1,86	1,135	56	56,000
	Task&Needs - Scientific Terms	2,16	1,187	56	56,000
	Task&Needs - Synonyms	2,32	1,097	56	56,000
	Task&Needs - Methods	3,02	,944	56	56,000

### Gleichheitstest der Gruppenmittelwerte

	Wilks-Lambda	F	df1	df2	Signifikanz
Task&Needs - Chemical Reactions	,375	44,220	2	53	,000
Task&Needs - Sequences	,472	29,621	2	53	,000
Task&Needs - Substances	,536	22,936	2	53	,000
Task&Needs - Structures	,511	25,401	2	53	,000
Task&Needs - Facts	,802	6,556	2	53	,003
Task&Needs - Literature	,995	,124	2	53	,883
Task&Needs - Full Text	,976	,639	2	53	,532
Task&Needs - Abstracts	,986	,370	2	53	,692
Task&Needs - Patents	,783	7,331	2	53	,002
Task&Needs - Poster	,986	,381	2	53	,685
Task&Needs - Reviews	,959	1,120	2	53	,334
Task&Needs - Books	,949	1,415	2	53	,252
Task&Needs - Citations	,974	,713	2	53	,495
Task&Needs - Scientific Terms	,932	1,932	2	53	,155
Task&Needs - Synonyms	,846	4,806	2	53	,012
Task&Needs - Methods	,806	6,361	2	53	,003

**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances	Task&Needs - Structures
Kovarianz	Task&Needs - Chemical Reactions	,817	-,035	,145	,174
	Task&Needs - Sequences	-,035	,900	,021	,143
	Task&Needs - Substances	,145	,021	,764	,204
	Task&Needs - Structures	,174	,143	,204	,899
	Task&Needs - Facts	-,009	,165	,108	,039
	Task&Needs - Literature	-,139	-,008	-,045	,005
	Task&Needs - Full Text	,001	,019	,008	,170
	Task&Needs - Abstracts	-,103	,140	-,038	-,121
	Task&Needs - Patents	,164	,006	,043	-,028
	Task&Needs - Poster	,026	-,107	,049	,016
	Task&Needs - Reviews	-,084	-,162	,010	,114
	Task&Needs - Books	,008	,035	-,090	,084
	Task&Needs - Citations	,174	-,284	,132	,201
	Task&Needs - Scientific Terms	-,033	,122	-,143	,079
	Task&Needs - Synonyms	-,059	,100	-,104	,184
Task&Needs - Methods	,021	,011	-,066	,022	
Korrelation	Task&Needs - Chemical Reactions	1,000	-,041	,184	,203
	Task&Needs - Sequences	-,041	1,000	,026	,159
	Task&Needs - Substances	,184	,026	1,000	,247
	Task&Needs - Structures	,203	,159	,247	1,000
	Task&Needs - Facts	-,010	,171	,121	,040
	Task&Needs - Literature	-,255	-,013	-,085	,009
	Task&Needs - Full Text	,001	,034	,016	,298
	Task&Needs - Abstracts	-,164	,213	-,063	-,184
	Task&Needs - Patents	,202	,007	,055	-,033
	Task&Needs - Poster	,033	-,127	,063	,019
	Task&Needs - Reviews	-,116	-,213	,014	,150
	Task&Needs - Books	,010	,042	-,116	,100
	Task&Needs - Citations	,168	-,262	,132	,186
	Task&Needs - Scientific Terms	-,032	,110	-,140	,072
	Task&Needs - Synonyms	-,064	,102	-,116	,189
Task&Needs - Methods	,027	,013	-,088	,027	



**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Facts	Task&Needs - Literature	Task&Needs - Full Text	Task&Needs - Abstracts
Kovarianz	Task&Needs - Chemical Reactions	-,009	-,139	,001	-,103
	Task&Needs - Sequences	,165	-,008	,019	,140
	Task&Needs - Substances	,108	-,045	,008	-,038
	Task&Needs - Structures	,039	,005	,170	-,121
	Task&Needs - Facts	1,042	,005	-,010	,114
	Task&Needs - Literature	,005	,364	,140	,019
	Task&Needs - Full Text	-,010	,140	,363	,000
	Task&Needs - Abstracts	,114	,019	,000	,481
	Task&Needs - Patents	-,001	,021	-,046	,021
	Task&Needs - Poster	-,104	-,018	-,009	,166
	Task&Needs - Reviews	-,055	,133	,070	,038
	Task&Needs - Books	,097	,043	,028	,114
	Task&Needs - Citations	,098	,009	-,155	-,252
	Task&Needs - Scientific Terms	-,072	,196	,047	-,196
	Task&Needs - Synonyms	-,182	,177	-,027	-,066
	Task&Needs - Methods	,266	-,027	,122	,089
Korrelation	Task&Needs - Chemical Reactions	-,010	-,255	,001	-,164
	Task&Needs - Sequences	,171	-,013	,034	,213
	Task&Needs - Substances	,121	-,085	,016	-,063
	Task&Needs - Structures	,040	,009	,298	-,184
	Task&Needs - Facts	1,000	,008	-,016	,161
	Task&Needs - Literature	,008	1,000	,386	,045
	Task&Needs - Full Text	-,016	,386	1,000	-,001
	Task&Needs - Abstracts	,161	,045	-,001	1,000
	Task&Needs - Patents	-,001	,040	-,085	,033
	Task&Needs - Poster	-,114	-,033	-,017	,269
	Task&Needs - Reviews	-,067	,275	,145	,068
	Task&Needs - Books	,108	,080	,052	,186
	Task&Needs - Citations	,084	,013	-,226	-,319
	Task&Needs - Scientific Terms	-,061	,279	,067	-,242
	Task&Needs - Synonyms	-,174	,285	-,044	-,092
	Task&Needs - Methods	,302	-,052	,235	,149

**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Patents	Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
Kovarianz	Task&Needs - Chemical Reactions	,164	,026	-,084	,008
	Task&Needs - Sequences	,006	-,107	-,162	,035
	Task&Needs - Substances	,043	,049	,010	-,090
	Task&Needs - Structures	-,028	,016	,114	,084
	Task&Needs - Facts	-,001	-,104	-,055	,097
	Task&Needs - Literature	,021	-,018	,133	,043
	Task&Needs - Full Text	-,046	-,009	,070	,028
	Task&Needs - Abstracts	,021	,166	,038	,114
	Task&Needs - Patents	,801	-,003	-,028	-,116
	Task&Needs - Poster	-,003	,792	,231	,004
	Task&Needs - Reviews	-,028	,231	,647	,303
	Task&Needs - Books	-,116	,004	,303	,785
	Task&Needs - Citations	,150	,040	,111	,086
	Task&Needs - Scientific Terms	,047	-,017	,219	-,056
	Task&Needs - Synonyms	,129	,154	,160	-,041
	Task&Needs - Methods	-,130	-,126	,118	,224
Korrelation	Task&Needs - Chemical Reactions	,202	,033	-,116	,010
	Task&Needs - Sequences	,007	-,127	-,213	,042
	Task&Needs - Substances	,055	,063	,014	-,116
	Task&Needs - Structures	-,033	,019	,150	,100
	Task&Needs - Facts	-,001	-,114	-,067	,108
	Task&Needs - Literature	,040	-,033	,275	,080
	Task&Needs - Full Text	-,085	-,017	,145	,052
	Task&Needs - Abstracts	,033	,269	,068	,186
	Task&Needs - Patents	1,000	-,004	-,038	-,147
	Task&Needs - Poster	-,004	1,000	,324	,005
	Task&Needs - Reviews	-,038	,324	1,000	,425
	Task&Needs - Books	-,147	,005	,425	1,000
	Task&Needs - Citations	,147	,039	,121	,085
	Task&Needs - Scientific Terms	,045	-,016	,233	-,054
	Task&Needs - Synonyms	,140	,169	,193	-,045
	Task&Needs - Methods	-,168	-,165	,170	,293

**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Citations	Task&Needs - Scientific Terms	Task&Needs - Synonyms	Task&Needs - Methods
Kovarianz	Task&Needs - Chemical Reactions	,174	-,033	-,059	,021
	Task&Needs - Sequences	-,284	,122	,100	,011
	Task&Needs - Substances	,132	-,143	-,104	-,066
	Task&Needs - Structures	,201	,079	,184	,022
	Task&Needs - Facts	,098	-,072	-,182	,266
	Task&Needs - Literature	,009	,196	,177	-,027
	Task&Needs - Full Text	-,155	,047	-,027	,122
	Task&Needs - Abstracts	-,252	-,196	-,066	,089
	Task&Needs - Patents	,150	,047	,129	-,130
	Task&Needs - Poster	,040	-,017	,154	-,126
	Task&Needs - Reviews	,111	,219	,160	,118
	Task&Needs - Books	,086	-,056	-,041	,224
	Task&Needs - Citations	1,302	,090	,087	-,075
	Task&Needs - Scientific Terms	,090	1,364	,551	-,142
	Task&Needs - Synonyms	,087	,551	1,058	-,109
Task&Needs - Methods	-,075	-,142	-,109	,745	
Korrelation	Task&Needs - Chemical Reactions	,168	-,032	-,064	,027
	Task&Needs - Sequences	-,262	,110	,102	,013
	Task&Needs - Substances	,132	-,140	-,116	-,088
	Task&Needs - Structures	,186	,072	,189	,027
	Task&Needs - Facts	,084	-,061	-,174	,302
	Task&Needs - Literature	,013	,279	,285	-,052
	Task&Needs - Full Text	-,226	,067	-,044	,235
	Task&Needs - Abstracts	-,319	-,242	-,092	,149
	Task&Needs - Patents	,147	,045	,140	-,168
	Task&Needs - Poster	,039	-,016	,169	-,165
	Task&Needs - Reviews	,121	,233	,193	,170
	Task&Needs - Books	,085	-,054	-,045	,293
	Task&Needs - Citations	1,000	,067	,075	-,077
	Task&Needs - Scientific Terms	,067	1,000	,458	-,141
	Task&Needs - Synonyms	,075	,458	1,000	-,123
Task&Needs - Methods	-,077	-,141	-,123	1,000	

a. Die Kovarianzmatrix hat einen Freiheitsgrad von 53.

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances
1	Task&Needs - Chemical Reactions	,506	,069	,126
	Task&Needs - Sequences	,069	,838	,055
	Task&Needs - Substances	,126	,055	1,099
	Task&Needs - Structures	,287	,231	,129
	Task&Needs - Facts	-,057	,279	,018
	Task&Needs - Literature	-,161	-,093	-,106
	Task&Needs - Full Text	-,011	-,038	-,087
	Task&Needs - Abstracts	-,069	,090	-,131
	Task&Needs - Patents	,092	-,248	,147
	Task&Needs - Poster	-,023	-,190	-,023
	Task&Needs - Reviews	-,092	-,234	-,009
	Task&Needs - Books	,184	,138	-,264
	Task&Needs - Citations	,253	-,359	,260
	Task&Needs - Scientific Terms	-,034	,000	-,207
	Task&Needs - Synonyms	-,057	-,103	-,161
	Task&Needs - Methods	,184	,200	-,140
2	Task&Needs - Chemical Reactions	1,042	-,247	,011
	Task&Needs - Sequences	-,247	1,187	-,016
	Task&Needs - Substances	,011	-,016	,095
	Task&Needs - Structures	-,084	,126	,032
	Task&Needs - Facts	-,105	,026	,000
	Task&Needs - Literature	-,168	,095	,011
	Task&Needs - Full Text	,037	,076	,016
	Task&Needs - Abstracts	-,268	,218	,058
	Task&Needs - Patents	,158	,289	,053
	Task&Needs - Poster	-,058	-,018	,005
	Task&Needs - Reviews	,063	-,095	-,063
	Task&Needs - Books	-,258	-,113	,047
	Task&Needs - Citations	-,042	-,174	-,221
	Task&Needs - Scientific Terms	-,058	,376	,005
	Task&Needs - Synonyms	,037	,445	,016
	Task&Needs - Methods	,032	-,284	-,032

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances
3	Task&Needs - Chemical Reactions	1,767	,167	,767
	Task&Needs - Sequences	,167	,167	-,033
	Task&Needs - Substances	,767	-,033	1,367
	Task&Needs - Structures	,500	-,300	1,300
	Task&Needs - Facts	,633	,033	1,033
	Task&Needs - Literature	,100	,100	,100
	Task&Needs - Full Text	-,067	,133	,533
	Task&Needs - Abstracts	,333	,133	,133
	Task&Needs - Patents	,600	,400	-,600
	Task&Needs - Poster	,633	,033	,633
	Task&Needs - Reviews	-,600	,000	,400
	Task&Needs - Books	,000	,000	,400
	Task&Needs - Citations	,533	-,267	,733
	Task&Needs - Scientific Terms	,067	-,133	-,333
	Task&Needs - Synonyms	-,433	-,033	-,233
	Task&Needs - Methods	-,967	,033	,233
Gesamt	Task&Needs - Chemical Reactions	2,101	,138	1,042
	Task&Needs - Sequences	,138	1,836	,270
	Task&Needs - Substances	1,042	,270	1,374
	Task&Needs - Structures	1,163	,538	,918
	Task&Needs - Facts	,558	,179	,486
	Task&Needs - Literature	-,146	,029	-,046
	Task&Needs - Full Text	,057	,101	,057
	Task&Needs - Abstracts	-,114	,210	-,037
	Task&Needs - Patents	,244	,460	,162
	Task&Needs - Poster	,144	-,074	,131
	Task&Needs - Reviews	-,130	-,010	-,003
	Task&Needs - Books	,041	-,156	-,091
	Task&Needs - Citations	,177	-,094	,158
	Task&Needs - Scientific Terms	,285	,294	,099
	Task&Needs - Synonyms	,171	,497	,107
	Task&Needs - Methods	,117	,419	,057

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr.	des Falls	Task&Needs - Structures	Task&Needs - Facts	Task&Needs - Literature
1	Task&Needs - Chemical Reactions	,287	-,057	-,161
	Task&Needs - Sequences	,231	,279	-,093
	Task&Needs - Substances	,129	,018	-,106
	Task&Needs - Structures	1,137	-,015	-,022
	Task&Needs - Facts	-,015	1,357	,061
	Task&Needs - Literature	-,022	,061	,309
	Task&Needs - Full Text	,256	-,082	,043
	Task&Needs - Abstracts	-,228	-,028	,021
	Task&Needs - Patents	,122	,032	,005
	Task&Needs - Poster	-,167	-,477	-,029
	Task&Needs - Reviews	-,018	-,170	,202
	Task&Needs - Books	-,080	,023	,057
	Task&Needs - Citations	,071	,099	-,060
	Task&Needs - Scientific Terms	-,034	,034	,138
	Task&Needs - Synonyms	,264	-,253	,230
Task&Needs - Methods	,133	,251	,016	
2	Task&Needs - Chemical Reactions	-,084	-,105	-,168
	Task&Needs - Sequences	,126	,026	,095
	Task&Needs - Substances	,032	,000	,011
	Task&Needs - Structures	,274	-,053	,126
	Task&Needs - Facts	-,053	,579	-,158
	Task&Needs - Literature	,126	-,158	,463
	Task&Needs - Full Text	,032	-,026	,274
	Task&Needs - Abstracts	,063	,289	-,032
	Task&Needs - Patents	,053	,000	,000
	Task&Needs - Poster	,168	,289	-,032
	Task&Needs - Reviews	,295	,000	,011
	Task&Needs - Books	,305	,132	-,021
	Task&Needs - Citations	,137	,000	,168
	Task&Needs - Scientific Terms	,221	-,132	,442
	Task&Needs - Synonyms	,137	-,079	,168
Task&Needs - Methods	-,116	,263	-,179	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Structures	Task&Needs - Facts	Task&Needs - Literature
3	Task&Needs - Chemical Reactions	,500	,633	,100
	Task&Needs - Sequences	-,300	,033	,100
	Task&Needs - Substances	1,300	1,033	,100
	Task&Needs - Structures	1,900	,700	-,300
	Task&Needs - Facts	,700	,967	,300
	Task&Needs - Literature	-,300	,300	,300
	Task&Needs - Full Text	,200	,467	,200
	Task&Needs - Abstracts	-,200	,267	,200
	Task&Needs - Patents	-1,200	-,200	,200
	Task&Needs - Poster	,500	,567	,100
	Task&Needs - Reviews	,200	,400	,200
	Task&Needs - Books	,200	,400	,200
	Task&Needs - Citations	1,200	,467	-,200
	Task&Needs - Scientific Terms	,200	-,467	-,400
	Task&Needs - Synonyms	-,100	-,167	-,100
	Task&Needs - Methods	-,100	,367	,300
Gesamt	Task&Needs - Chemical Reactions	1,163	,558	-,146
	Task&Needs - Sequences	,538	,179	,029
	Task&Needs - Substances	,918	,486	-,046
	Task&Needs - Structures	1,697	,452	,006
	Task&Needs - Facts	,452	1,252	-,003
	Task&Needs - Literature	,006	-,003	,352
	Task&Needs - Full Text	,229	,010	,138
	Task&Needs - Abstracts	-,106	,099	,021
	Task&Needs - Patents	,165	,010	,038
	Task&Needs - Poster	,110	-,049	-,018
	Task&Needs - Reviews	,117	-,083	,135
	Task&Needs - Books	,051	,119	,033
	Task&Needs - Citations	,252	,088	,016
	Task&Needs - Scientific Terms	,355	,060	,192
	Task&Needs - Synonyms	,456	-,099	,183
	Task&Needs - Methods	,207	,275	-,011

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Full Text	Task&Needs - Abstracts	Task&Needs - Patents
1	Task&Needs - Chemical Reactions	-,011	-,069	,092
	Task&Needs - Sequences	-,038	,090	-,248
	Task&Needs - Substances	-,087	-,131	,147
	Task&Needs - Structures	,256	-,228	,122
	Task&Needs - Facts	-,082	-,028	,032
	Task&Needs - Literature	,043	,021	,005
	Task&Needs - Full Text	,323	-,007	-,032
	Task&Needs - Abstracts	-,007	,455	-,117
	Task&Needs - Patents	-,032	-,117	,740
	Task&Needs - Poster	,063	,138	,011
	Task&Needs - Reviews	,067	,048	,018
	Task&Needs - Books	-,057	,034	-,126
	Task&Needs - Citations	-,168	-,407	,343
	Task&Needs - Scientific Terms	,000	-,138	-,172
	Task&Needs - Synonyms	-,092	-,034	-,023
	Task&Needs - Methods	,129	,090	-,133
2	Task&Needs - Chemical Reactions	,037	-,268	,158
	Task&Needs - Sequences	,076	,218	,289
	Task&Needs - Substances	,016	,058	,053
	Task&Needs - Structures	,032	,063	,053
	Task&Needs - Facts	-,026	,289	,000
	Task&Needs - Literature	,274	-,032	,000
	Task&Needs - Full Text	,345	-,008	,026
	Task&Needs - Abstracts	-,008	,576	,079
	Task&Needs - Patents	,026	,079	,474
	Task&Needs - Poster	-,139	,182	-,132
	Task&Needs - Reviews	-,063	,032	,053
	Task&Needs - Books	,061	,266	,026
	Task&Needs - Citations	-,089	-,100	-,105
	Task&Needs - Scientific Terms	,308	-,318	,237
	Task&Needs - Synonyms	,134	-,166	,184
	Task&Needs - Methods	-,032	,095	-,053



Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Full Text	Task&Needs - Abstracts	Task&Needs - Patents
3	Task&Needs - Chemical Reactions	-,067	,333	,600
	Task&Needs - Sequences	,133	,133	,400
	Task&Needs - Substances	,533	,133	-,600
	Task&Needs - Structures	,200	-,200	-1,200
	Task&Needs - Facts	,467	,267	-,200
	Task&Needs - Literature	,200	,200	,200
	Task&Needs - Full Text	,667	,067	-,400
	Task&Needs - Abstracts	,067	,267	,600
	Task&Needs - Patents	-,400	,600	2,400
	Task&Needs - Poster	,067	,267	,400
	Task&Needs - Reviews	,600	,000	-,600
	Task&Needs - Books	,400	,000	-,600
	Task&Needs - Citations	-,333	,067	,000
	Task&Needs - Scientific Terms	-,667	-,067	,600
	Task&Needs - Synonyms	-,267	,133	,800
	Task&Needs - Methods	,667	,067	-,400
Gesamt	Task&Needs - Chemical Reactions	,057	-,114	,244
	Task&Needs - Sequences	,101	,210	,460
	Task&Needs - Substances	,057	-,037	,162
	Task&Needs - Structures	,229	-,106	,165
	Task&Needs - Facts	,010	,099	,010
	Task&Needs - Literature	,138	,021	,038
	Task&Needs - Full Text	,358	,005	-,005
	Task&Needs - Abstracts	,005	,470	,055
	Task&Needs - Patents	-,005	,055	,986
	Task&Needs - Poster	-,003	,159	,011
	Task&Needs - Reviews	,078	,049	,042
	Task&Needs - Books	,013	,094	-,201
	Task&Needs - Citations	-,135	-,229	,229
	Task&Needs - Scientific Terms	,070	-,181	,129
	Task&Needs - Synonyms	,013	-,036	,313
	Task&Needs - Methods	,153	,117	,067

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
1	Task&Needs - Chemical Reactions	-,023	-,092	,184
	Task&Needs - Sequences	-,190	-,234	,138
	Task&Needs - Substances	-,023	-,009	-,264
	Task&Needs - Structures	-,167	-,018	-,080
	Task&Needs - Facts	-,477	-,170	,023
	Task&Needs - Literature	-,029	,202	,057
	Task&Needs - Full Text	,063	,067	-,057
	Task&Needs - Abstracts	,138	,048	,034
	Task&Needs - Patents	,011	,018	-,126
	Task&Needs - Poster	,764	,195	-,115
	Task&Needs - Reviews	,195	,464	,057
	Task&Needs - Books	-,115	,057	,644
	Task&Needs - Citations	-,253	-,170	,092
	Task&Needs - Scientific Terms	,069	,414	,138
	Task&Needs - Synonyms	,161	,264	,057
	Task&Needs - Methods	-,149	-,039	,195
2	Task&Needs - Chemical Reactions	-,058	,063	-,258
	Task&Needs - Sequences	-,018	-,095	-,113
	Task&Needs - Substances	,005	-,063	,047
	Task&Needs - Structures	,168	,295	,305
	Task&Needs - Facts	,289	,000	,132
	Task&Needs - Literature	-,032	,011	-,021
	Task&Needs - Full Text	-,139	-,063	,061
	Task&Needs - Abstracts	,182	,032	,266
	Task&Needs - Patents	-,132	,053	,026
	Task&Needs - Poster	,892	,347	,187
	Task&Needs - Reviews	,347	,884	,653
	Task&Needs - Books	,187	,653	1,103
	Task&Needs - Citations	,321	,621	,153
	Task&Needs - Scientific Terms	-,187	,137	-,208
	Task&Needs - Synonyms	,124	,042	-,097
	Task&Needs - Methods	-,116	,126	,221

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
3	Task&Needs - Chemical Reactions	,633	-,600	,000
	Task&Needs - Sequences	,033	,000	,000
	Task&Needs - Substances	,633	,400	,400
	Task&Needs - Structures	,500	,200	,200
	Task&Needs - Facts	,567	,400	,400
	Task&Needs - Literature	,100	,200	,200
	Task&Needs - Full Text	,067	,600	,400
	Task&Needs - Abstracts	,267	,000	,000
	Task&Needs - Patents	,400	-,600	-,600
	Task&Needs - Poster	,567	,000	,000
	Task&Needs - Reviews	,000	,800	,400
	Task&Needs - Books	,000	,400	,400
	Task&Needs - Citations	,667	-,200	-,200
	Task&Needs - Scientific Terms	,133	-,600	-,600
	Task&Needs - Synonyms	,233	,000	-,400
	Task&Needs - Methods	-,033	1,000	,400
Gesamt	Task&Needs - Chemical Reactions	,144	-,130	,041
	Task&Needs - Sequences	-,074	-,010	-,156
	Task&Needs - Substances	,131	-,003	-,091
	Task&Needs - Structures	,110	,117	,051
	Task&Needs - Facts	-,049	-,083	,119
	Task&Needs - Literature	-,018	,135	,033
	Task&Needs - Full Text	-,003	,078	,013
	Task&Needs - Abstracts	,159	,049	,094
	Task&Needs - Patents	,011	,042	-,201
	Task&Needs - Poster	,774	,221	,004
	Task&Needs - Reviews	,221	,649	,260
	Task&Needs - Books	,004	,260	,797
	Task&Needs - Citations	,042	,135	,047
	Task&Needs - Scientific Terms	,015	,221	-,073
	Task&Needs - Synonyms	,175	,205	-,110
	Task&Needs - Methods	-,107	,174	,137

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Citations	Task&Needs - Scientific Terms
1	Task&Needs - Chemical Reactions	,253	-,034
	Task&Needs - Sequences	-,359	,000
	Task&Needs - Substances	,260	-,207
	Task&Needs - Structures	,071	-,034
	Task&Needs - Facts	,099	,034
	Task&Needs - Literature	-,060	,138
	Task&Needs - Full Text	-,168	,000
	Task&Needs - Abstracts	-,407	-,138
	Task&Needs - Patents	,343	-,172
	Task&Needs - Poster	-,253	,069
	Task&Needs - Reviews	-,170	,414
	Task&Needs - Books	,092	,138
	Task&Needs - Citations	1,237	-,069
	Task&Needs - Scientific Terms	-,069	1,172
	Task&Needs - Synonyms	,057	,345
Task&Needs - Methods	-,163	,000	
2	Task&Needs - Chemical Reactions	-,042	-,058
	Task&Needs - Sequences	-,174	,376
	Task&Needs - Substances	-,221	,005
	Task&Needs - Structures	,137	,221
	Task&Needs - Facts	,000	-,132
	Task&Needs - Literature	,168	,442
	Task&Needs - Full Text	-,089	,308
	Task&Needs - Abstracts	-,100	-,318
	Task&Needs - Patents	-,105	,237
	Task&Needs - Poster	,321	-,187
	Task&Needs - Reviews	,621	,137
	Task&Needs - Books	,153	-,208
	Task&Needs - Citations	1,358	,163
	Task&Needs - Scientific Terms	,163	1,734
	Task&Needs - Synonyms	,016	,834
Task&Needs - Methods	,126	-,221	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Citations	Task&Needs - Scientific Terms
3	Task&Needs - Chemical Reactions	,533	,067
	Task&Needs - Sequences	-,267	-,133
	Task&Needs - Substances	,733	-,333
	Task&Needs - Structures	1,200	,200
	Task&Needs - Facts	,467	-,467
	Task&Needs - Literature	-,200	-,400
	Task&Needs - Full Text	-,333	-,667
	Task&Needs - Abstracts	,067	-,067
	Task&Needs - Patents	,000	,600
	Task&Needs - Poster	,667	,133
	Task&Needs - Reviews	-,200	-,600
	Task&Needs - Books	-,200	-,600
	Task&Needs - Citations	1,467	,733
	Task&Needs - Scientific Terms	,733	1,067
	Task&Needs - Synonyms	,533	,667
Task&Needs - Methods	-,333	-,667	
Gesamt	Task&Needs - Chemical Reactions	,177	,285
	Task&Needs - Sequences	-,094	,294
	Task&Needs - Substances	,158	,099
	Task&Needs - Structures	,252	,355
	Task&Needs - Facts	,088	,060
	Task&Needs - Literature	,016	,192
	Task&Needs - Full Text	-,135	,070
	Task&Needs - Abstracts	-,229	-,181
	Task&Needs - Patents	,229	,129
	Task&Needs - Poster	,042	,015
	Task&Needs - Reviews	,135	,221
	Task&Needs - Books	,047	-,073
	Task&Needs - Citations	1,288	,114
	Task&Needs - Scientific Terms	,114	1,410
	Task&Needs - Synonyms	,156	,638
Task&Needs - Methods	,003	-,057	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Synonyms	Task&Needs - Methods
1	Task&Needs - Chemical Reactions	-,057	,184
	Task&Needs - Sequences	-,103	,200
	Task&Needs - Substances	-,161	-,140
	Task&Needs - Structures	,264	,133
	Task&Needs - Facts	-,253	,251
	Task&Needs - Literature	,230	,016
	Task&Needs - Full Text	-,092	,129
	Task&Needs - Abstracts	-,034	,090
	Task&Needs - Patents	-,023	-,133
	Task&Needs - Poster	,161	-,149
	Task&Needs - Reviews	,264	-,039
	Task&Needs - Books	,057	,195
	Task&Needs - Citations	,057	-,163
	Task&Needs - Scientific Terms	,345	,000
	Task&Needs - Synonyms	,989	-,080
Task&Needs - Methods	-,080	,740	
2	Task&Needs - Chemical Reactions	,037	,032
	Task&Needs - Sequences	,445	-,284
	Task&Needs - Substances	,016	-,032
	Task&Needs - Structures	,137	-,116
	Task&Needs - Facts	-,079	,263
	Task&Needs - Literature	,168	-,179
	Task&Needs - Full Text	,134	-,032
	Task&Needs - Abstracts	-,166	,095
	Task&Needs - Patents	,184	-,053
	Task&Needs - Poster	,124	-,116
	Task&Needs - Reviews	,042	,126
	Task&Needs - Books	-,097	,221
	Task&Needs - Citations	,016	,126
	Task&Needs - Scientific Terms	,834	-,221
	Task&Needs - Synonyms	1,187	-,242
Task&Needs - Methods	-,242	,589	

### Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Synonyms	Task&Needs - Methods
3	Task&Needs - Chemical Reactions	-,433	-,967
	Task&Needs - Sequences	-,033	,033
	Task&Needs - Substances	-,233	,233
	Task&Needs - Structures	-,100	-,100
	Task&Needs - Facts	-,167	,367
	Task&Needs - Literature	-,100	,300
	Task&Needs - Full Text	-,267	,667
	Task&Needs - Abstracts	,133	,067
	Task&Needs - Patents	,800	-,400
	Task&Needs - Poster	,233	-,033
	Task&Needs - Reviews	,000	1,000
	Task&Needs - Books	-,400	,400
	Task&Needs - Citations	,533	-,333
	Task&Needs - Scientific Terms	,667	-,667
	Task&Needs - Synonyms	,967	,233
	Task&Needs - Methods	,233	1,367
Gesamt	Task&Needs - Chemical Reactions	,171	,117
	Task&Needs - Sequences	,497	,419
	Task&Needs - Substances	,107	,057
	Task&Needs - Structures	,456	,207
	Task&Needs - Facts	-,099	,275
	Task&Needs - Literature	,183	-,011
	Task&Needs - Full Text	,013	,153
	Task&Needs - Abstracts	-,036	,117
	Task&Needs - Patents	,313	,067
	Task&Needs - Poster	,175	-,107
	Task&Needs - Reviews	,205	,174
	Task&Needs - Books	-,110	,137
	Task&Needs - Citations	,156	,003
	Task&Needs - Scientific Terms	,638	-,057
	Task&Needs - Synonyms	1,204	,067
	Task&Needs - Methods	,067	,891

a. Die Kovarianzmatrix für alle Fälle hat einen Freiheitsgrad von 55.

## Analyse 1

### Box-Test auf Gleichheit der Kovarianz-Matrizen

### Log-Determinanten

Cluster-Nr. des Falls	Rang	Log-Determinante
1	16	-12,323
2	16	-17,956
3	. <sup>a</sup>	. <sup>b</sup>
Gemeinsam innerhalb der Gruppen	16	-7,497

Die Ränge und natürlichen Logarithmen der ausgegebenen Determinanten sind die der Gruppen-Kovarianz-Matrizen.

a. Rang < 6

b. Zu wenig Fälle für Nicht-Singularität

### Textergebnisse<sup>a</sup>

Box-M		414,760
F	Näherungswert	1,862
	df1	136
	df2	5171,902
	Signifikanz	,000

Testet die Null-Hypothese der Kovarianz-Matrizen gleicher Grundgesamtheit.

- a. Einige der Kovarianz-Matrizen sind singulär, so daß die übliche Vorgehensweise ungeeignet ist. Die nicht-singulären Gruppen werden gegenüber der eigenen gemeinsamen Kovarianzmatrix innerhalb der Gruppen getestet. Der Logarithmus der Determinanten ist -5,912.

## Zusammenfassung der kanonischen Diskriminanzfunktionen

### Eigenwerte

Funktion	Eigenwert	% der Varianz	Kumulierte %	Kanonische Korrelation
1	3,286 <sup>a</sup>	56,1	56,1	,876
2	2,572 <sup>a</sup>	43,9	100,0	,849

- a. Die ersten 2 kanonischen Diskriminanzfunktionen werden in dieser Analyse verwendet.

### Wilks' Lambda

Test der Funktion(en)	Wilks-Lambda	Chi-Quadrat	df	Signifikanz
1 bis 2	,065	124,139	32	,000
2	,280	57,925	15	,000



### Standardisierte kanonische Diskriminanzfunktionskoeffizienten

	Funktion	
	1	2
Task&Needs - Chemical Reactions	,704	,041
Task&Needs - Sequences	-,270	,883
Task&Needs - Substances	,365	,093
Task&Needs - Structures	,448	,022
Task&Needs - Facts	,270	-,257
Task&Needs - Literature	,260	,048
Task&Needs - Full Text	-,274	-,017
Task&Needs - Abstracts	,145	-,036
Task&Needs - Patents	-,136	,298
Task&Needs - Poster	,044	,062
Task&Needs - Reviews	-,196	,338
Task&Needs - Books	,081	-,421
Task&Needs - Citations	-,356	,308
Task&Needs - Scientific Terms	,251	-,117
Task&Needs - Synonyms	,049	,065
Task&Needs - Methods	,007	,530

### Struktur-Matrix

	Funktion	
	1	2
Task&Needs - Chemical Reactions	,706*	,107
Task&Needs - Substances	,490*	,173
Task&Needs - Structures	,488*	,261
Task&Needs - Facts	,274*	,006
Task&Needs - Scientific Terms	,123*	,095
Task&Needs - Poster	,064*	,020
Task&Needs - Sequences	,011	,659*
Task&Needs - Patents	,009	,328*
Task&Needs - Methods	,019	,305*
Task&Needs - Synonyms	,080	,250*
Task&Needs - Books	,035	-,139*
Task&Needs - Reviews	-,044	,118*
Task&Needs - Citations	-,008	,102*
Task&Needs - Full Text	,036	,088*
Task&Needs - Abstracts	-,019	,070*
Task&Needs - Literature	-,015	,039*

Gemeinsame Korrelationen innerhalb der Gruppen zwischen Diskriminanzvariablen und standardisierten kanonischen Diskriminanzfunktionen

Variablen sind nach ihrer absoluten Korrelationsgröße innerhalb der Funktion geordnet.

\*. Größte absolute Korrelation zwischen jeder Variablen und einer Diskriminanzfunktion

## Kanonische Diskriminanzfunktionskoeffizienten

	Funktion	
	1	2
Task&Needs - Chemical Reactions	,778	,046
Task&Needs - Sequences	-,284	,931
Task&Needs - Substances	,418	,107
Task&Needs - Structures	,472	,024
Task&Needs - Facts	,265	-,252
Task&Needs - Literature	,432	,080
Task&Needs - Full Text	-,455	-,029
Task&Needs - Abstracts	,209	-,052
Task&Needs - Patents	-,152	,333
Task&Needs - Poster	,049	,070
Task&Needs - Reviews	-,243	,420
Task&Needs - Books	,092	-,475
Task&Needs - Citations	-,312	,270
Task&Needs - Scientific Terms	,215	-,100
Task&Needs - Synonyms	,048	,063
Task&Needs - Methods	,008	,614
(Konstant)	-3,288	-6,369

Nicht-standardisierte Koeffizienten

## Funktionen bei den Gruppen-Zentroiden

Cluster-Nr. des Falls	Funktion	
	1	2
1	-1,526	,535
2	2,283	,549
3	,021	-4,504

Nicht-standardisierte kanonische Diskriminanzfunktionen, die bezüglich des Gruppen-Mittelwertes bewertet werden

## Klassifizierungsstatistiken

### Zusammenfassung der Verarbeitung von Klassifizierungen

Verarbeitet		72
Ausgeschlossen	Fehlende oder außerhalb des Bereichs liegende Gruppencodes	0
	Wenigstens eine Diskriminanzvariable fehlt	16
In der Ausgabe verwendet		56

### A-priori-Wahrscheinlichkeiten der Gruppen

Cluster-Nr. des Falls	A-priori	In der Analyse verwendete Fälle	
		Ungewichtet	Gewichtet
1	,333	30	30,000
2	,333	20	20,000
3	,333	6	6,000
Gesamt	1,000	56	56,000

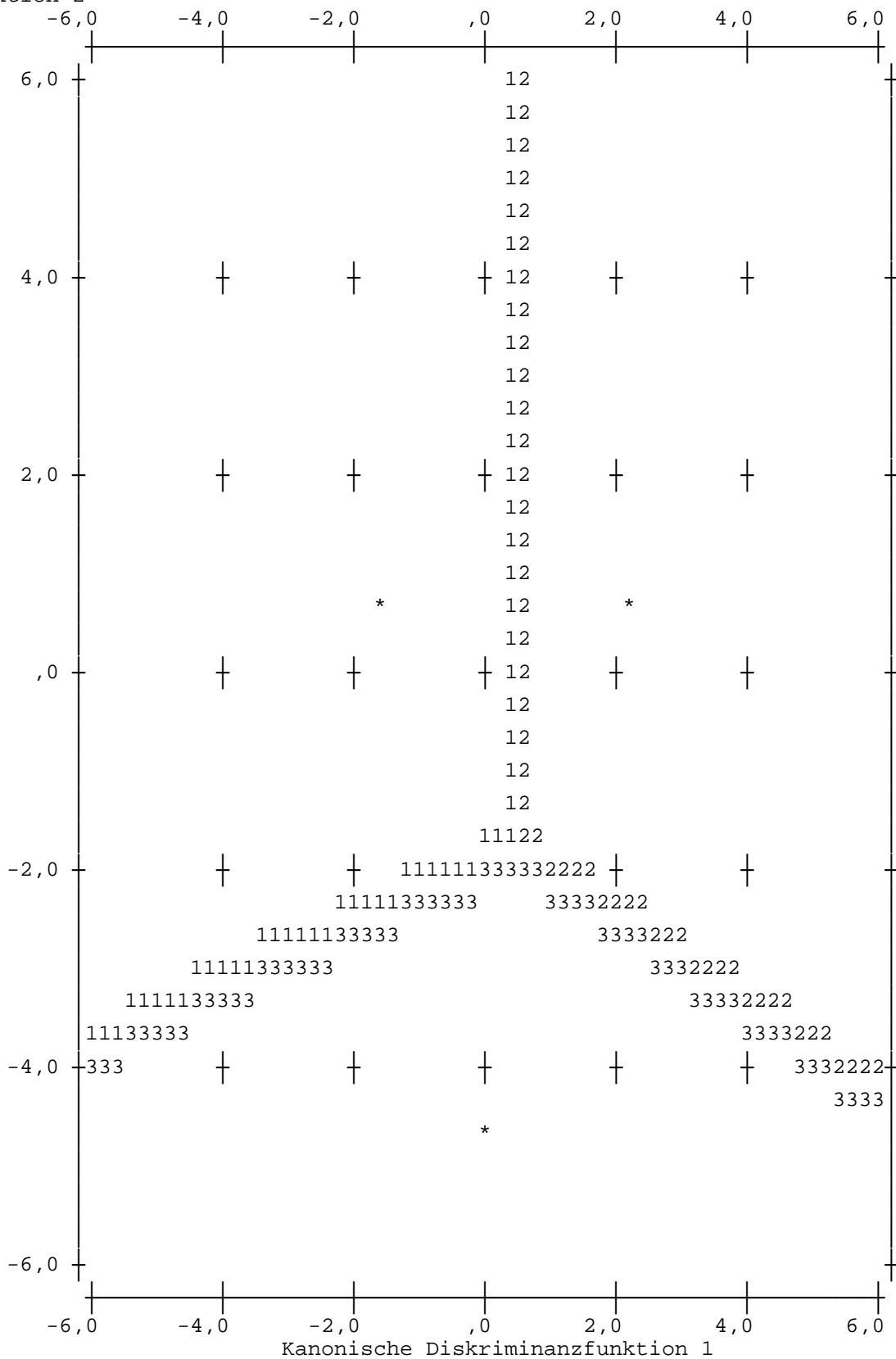
### Klassifizierungsfunktionskoeffizienten

	Cluster-Nr. des Falls		
	1	2	3
Task&Needs - Chemical Reactions	1,035	4,000	2,010
Task&Needs - Sequences	4,298	3,228	-,832
Task&Needs - Substances	3,162	4,756	3,271
Task&Needs - Structures	-1,327	,473	-,715
Task&Needs - Facts	-,200	,805	1,480
Task&Needs - Literature	6,159	7,806	6,425
Task&Needs - Full Text	8,215	6,481	7,656
Task&Needs - Abstracts	6,635	7,431	7,220
Task&Needs - Patents	3,895	3,322	1,983
Task&Needs - Poster	2,706	2,893	2,430
Task&Needs - Reviews	1,583	,662	-,911
Task&Needs - Books	,166	,509	2,700
Task&Needs - Citations	3,871	2,687	2,028
Task&Needs - Scientific Terms	,907	1,724	1,742
Task&Needs - Synonyms	,486	,670	,242
Task&Needs - Methods	4,059	4,097	,976
(Konstant)	-73,461	-87,524	-55,290

Lineare Diskriminanzfunktionen nach Fisher

Territorien

Kanonische Diskriminanzfunktion 2

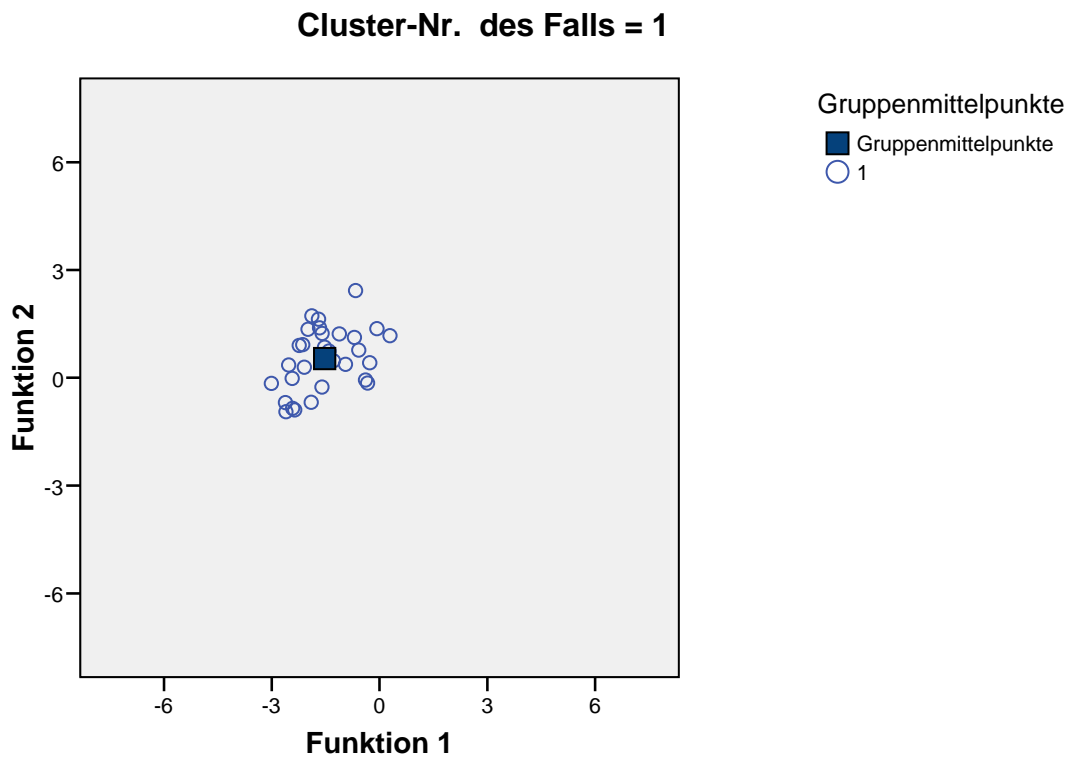


Symbole für Territorien

Symbol	Grp.	Label
1	1	
2	2	
3	3	
*		Markiert Gruppenzentroide

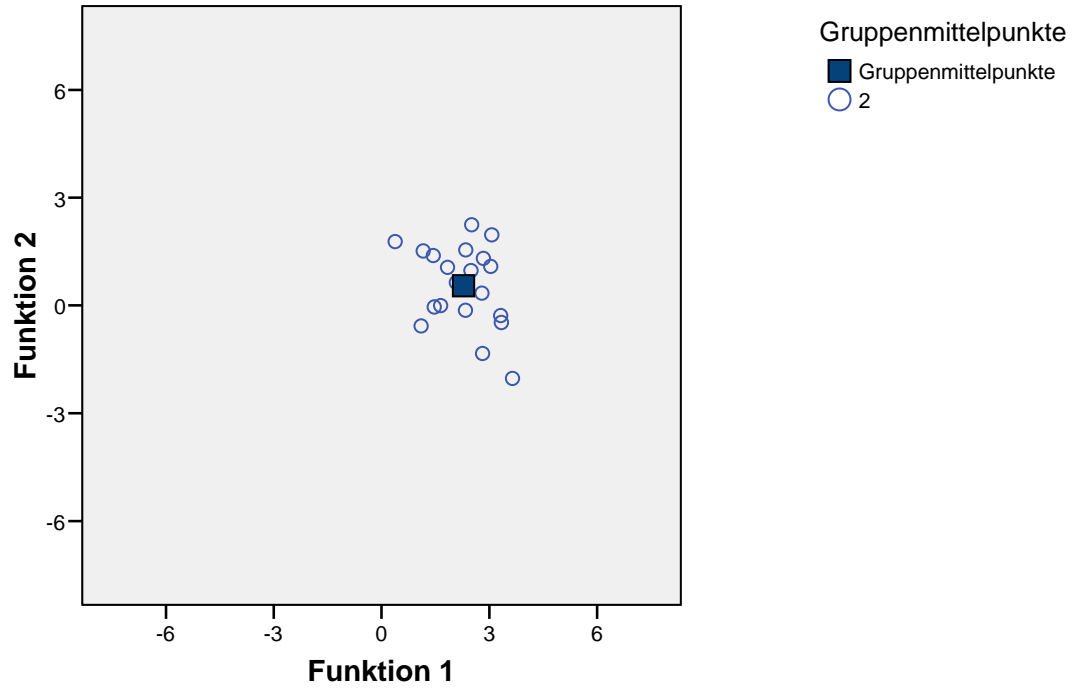
## Graphische Darstellung getrennter Gruppen

### Kanonische Diskriminanzfunktion



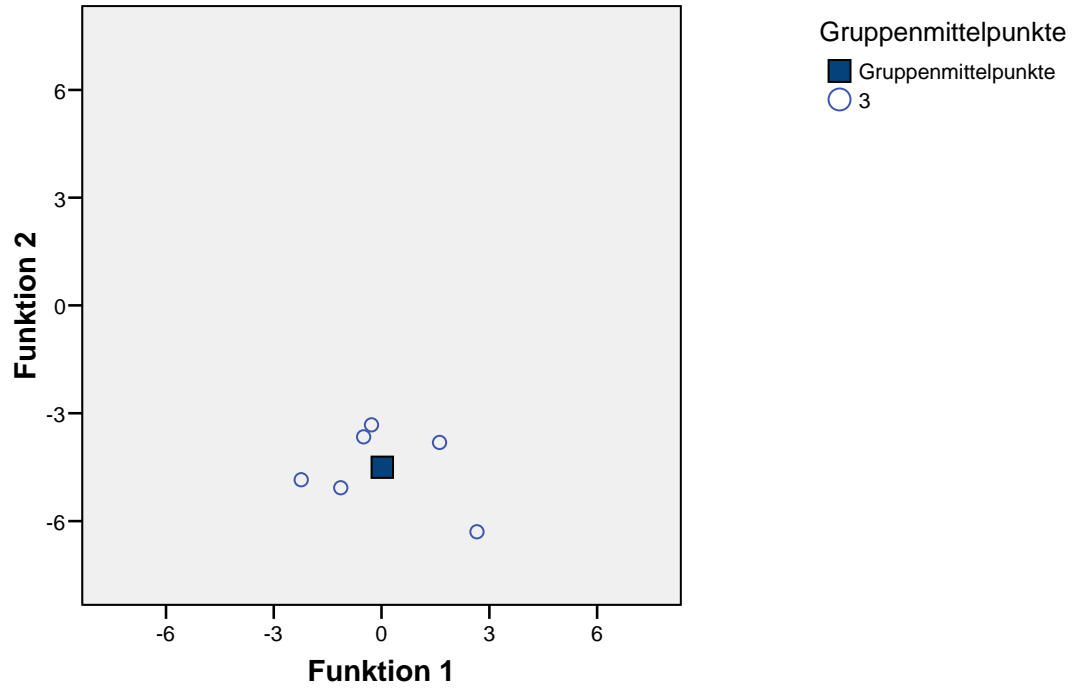
# Kanonische Diskriminanzfunktion

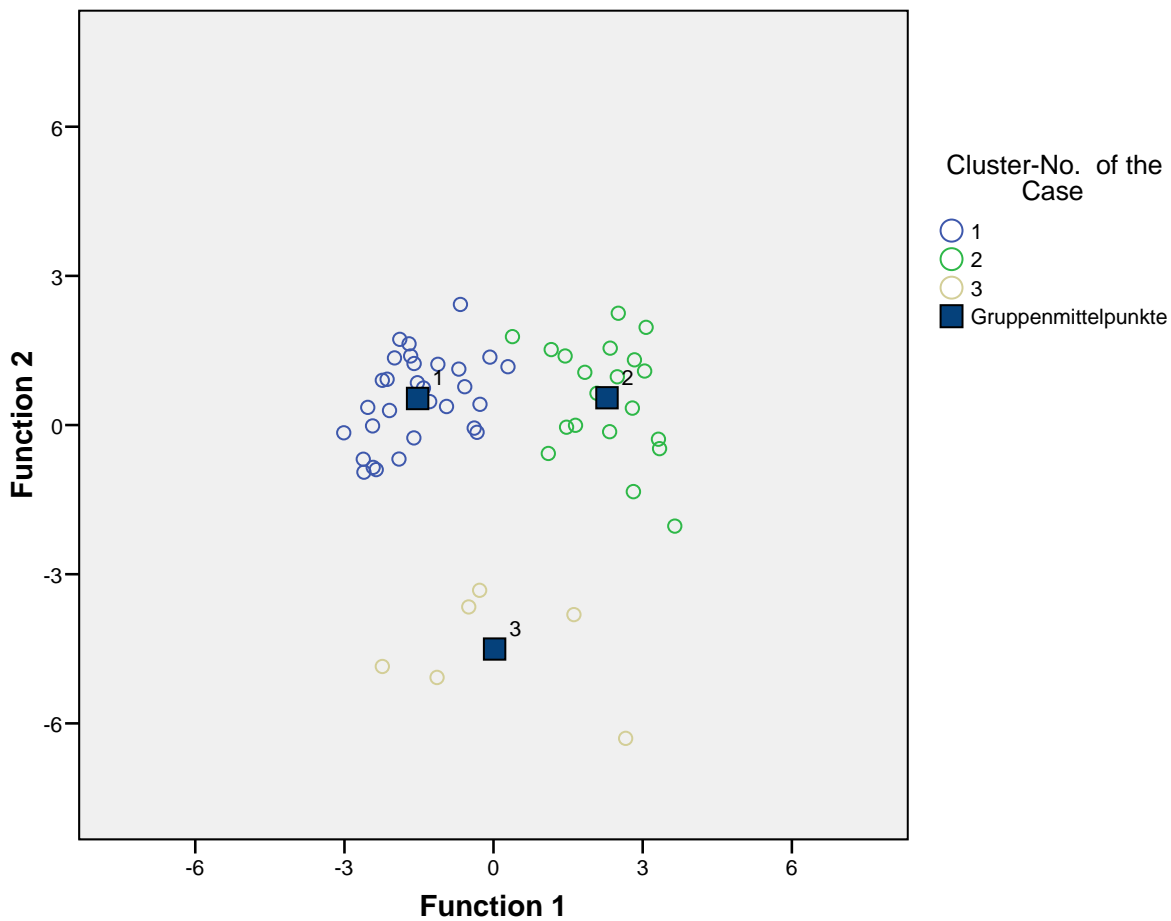
Cluster-Nr. des Falls = 2



# Kanonische Diskriminanzfunktion

Cluster-Nr. des Falls = 3





Klassifizierungsergebnisse<sup>b,c</sup>

			Vorhergesagte Gruppenzugehörigkeit			Gesamt
			1	2	3	
Original	Anzahl	1	30	0	0	30
		2	0	20	0	20
		3	0	0	6	6
	%	1	100,0	,0	,0	100,0
		2	,0	100,0	,0	100,0
		3	,0	,0	100,0	100,0
Kreuzvalidiert <sup>a</sup>	Anzahl	1	27	3	0	30
		2	3	15	2	20
		3	0	0	6	6
	%	1	90,0	10,0	,0	100,0
		2	15,0	75,0	10,0	100,0
		3	,0	,0	100,0	100,0

a. Die Kreuzvalidierung wird nur für Fälle in dieser Analyse vorgenommen. In der Kreuzvalidierung ist jeder Fall durch die Funktionen klassifiziert, die von allen anderen Fällen außer diesem Fall abgeleitet werden.

b. 100,0% der ursprünglich gruppierten Fälle wurden korrekt klassifiziert.

c. 85,7% der kreuzvalidierten gruppierten Fälle wurden korrekt klassifiziert.

## Diskriminanzanalyse

[DatenSet9] \\RPZMS000362\U\_muehlbs1\$\My Documents\Muehlbacher\Diss\Diss\_Kapitel\work report\_fertigeDateien\scientists results\User Analysis\InfoType.sav



### Analyse der verarbeiteten Fälle.

Ungewichtete Fälle		N	Prozent
Gültig		56	77,8
Ausgeschlossen	Gruppencodes fehlend oder außerhalb des Bereichs	0	,0
	Mindestens eine fehlende Diskriminanz-Variable	0	,0
	Beide fehlenden oder außerhalb des Bereichs liegenden Gruppencodes und mindestens eine fehlende Diskriminanz-Variable	16	22,2
	Gesamtzahl der ausgeschlossenen	16	22,2
Gesamtzahl der Fälle		72	100,0

### Gruppenstatistik

Cluster-Nr. des Falls		Mittelwert	Standardabweichung	Gültige Werte (listenweise)	
				Ungewichtet	Gewichtet
1	Task&Needs - Chemical Reactions	,43	,507	23	23,000
	Task&Needs - Sequences	3,17	,984	23	23,000
	Task&Needs - Substances	2,17	1,072	23	23,000
	Task&Needs - Structures	1,70	,876	23	23,000
	Task&Needs - Facts	2,39	1,196	23	23,000
	Task&Needs - Literature	3,70	,559	23	23,000
	Task&Needs - Full Text	3,57	,590	23	23,000
	Task&Needs - Abstracts	3,78	,518	23	23,000
	Task&Needs - Patents	3,43	,945	23	23,000
	Task&Needs - Poster	2,96	,825	23	23,000
	Task&Needs - Reviews	3,61	,656	23	23,000
	Task&Needs - Books	2,22	,795	23	23,000
	Task&Needs - Citations	1,74	1,137	23	23,000
	Task&Needs - Scientific Terms	1,87	1,140	23	23,000
	Task&Needs - Synonyms	2,30	1,063	23	23,000
	Task&Needs - Methods	3,13	,869	23	23,000

### Gruppenstatistik

Cluster-Nr. des Falls		Mittelwert	Standardabweichung	Gültige Werte (listenweise)	
				Ungewichtet	Gewichtet
2	Task&Needs - Chemical Reactions	1,17	1,329	6	6,000
	Task&Needs - Sequences	,17	,408	6	6,000
	Task&Needs - Substances	2,17	1,169	6	6,000
	Task&Needs - Structures	1,50	1,378	6	6,000
	Task&Needs - Facts	2,83	,983	6	6,000
	Task&Needs - Literature	3,50	,548	6	6,000
	Task&Needs - Full Text	3,33	,816	6	6,000
	Task&Needs - Abstracts	3,33	,516	6	6,000
	Task&Needs - Patents	2,00	1,549	6	6,000
	Task&Needs - Poster	2,83	,753	6	6,000
	Task&Needs - Reviews	3,00	,894	6	6,000
	Task&Needs - Books	3,00	,632	6	6,000
	Task&Needs - Citations	1,33	1,211	6	6,000
	Task&Needs - Scientific Terms	1,67	1,033	6	6,000
	Task&Needs - Synonyms	1,17	,983	6	6,000
	Task&Needs - Methods	1,83	1,169	6	6,000
3	Task&Needs - Chemical Reactions	3,00	1,177	14	14,000
	Task&Needs - Sequences	3,00	1,177	14	14,000
	Task&Needs - Substances	3,57	,646	14	14,000
	Task&Needs - Structures	3,50	,855	14	14,000
	Task&Needs - Facts	3,29	,825	14	14,000
	Task&Needs - Literature	3,36	,745	14	14,000
	Task&Needs - Full Text	3,43	,646	14	14,000
	Task&Needs - Abstracts	3,50	,760	14	14,000
	Task&Needs - Patents	3,29	,611	14	14,000
	Task&Needs - Poster	3,29	,611	14	14,000
	Task&Needs - Reviews	3,50	,941	14	14,000
	Task&Needs - Books	2,71	1,069	14	14,000
	Task&Needs - Citations	2,43	1,222	14	14,000
	Task&Needs - Scientific Terms	1,79	1,051	14	14,000
	Task&Needs - Synonyms	2,14	,770	14	14,000
	Task&Needs - Methods	3,43	,646	14	14,000

### Gruppenstatistik

Cluster-Nr. des Falls		Mittelwert	Standardabweichung	Gültige Werte (listenweise)	
				Ungewichtet	Gewichtet
4	Task&Needs - Chemical Reactions	2,31	1,182	13	13,000
	Task&Needs - Sequences	3,92	,277	13	13,000
	Task&Needs - Substances	3,54	,967	13	13,000
	Task&Needs - Structures	3,77	,439	13	13,000
	Task&Needs - Facts	3,23	1,092	13	13,000
	Task&Needs - Literature	3,77	,439	13	13,000
	Task&Needs - Full Text	3,85	,376	13	13,000
	Task&Needs - Abstracts	3,31	,855	13	13,000
	Task&Needs - Patents	3,77	,599	13	13,000
	Task&Needs - Poster	2,46	1,127	13	13,000
	Task&Needs - Reviews	3,23	,832	13	13,000
	Task&Needs - Books	2,31	,855	13	13,000
	Task&Needs - Citations	1,69	,855	13	13,000
	Task&Needs - Scientific Terms	3,31	,751	13	13,000
	Task&Needs - Synonyms	3,08	1,038	13	13,000
	Task&Needs - Methods	2,92	,862	13	13,000
Gesamt	Task&Needs - Chemical Reactions	1,59	1,449	56	56,000
	Task&Needs - Sequences	2,98	1,355	56	56,000
	Task&Needs - Substances	2,84	1,172	56	56,000
	Task&Needs - Structures	2,61	1,303	56	56,000
	Task&Needs - Facts	2,86	1,119	56	56,000
	Task&Needs - Literature	3,61	,593	56	56,000
	Task&Needs - Full Text	3,57	,599	56	56,000
	Task&Needs - Abstracts	3,55	,685	56	56,000
	Task&Needs - Patents	3,32	,993	56	56,000
	Task&Needs - Poster	2,91	,880	56	56,000
	Task&Needs - Reviews	3,43	,806	56	56,000
	Task&Needs - Books	2,45	,893	56	56,000
	Task&Needs - Citations	1,86	1,135	56	56,000
	Task&Needs - Scientific Terms	2,16	1,187	56	56,000
	Task&Needs - Synonyms	2,32	1,097	56	56,000
	Task&Needs - Methods	3,02	,944	56	56,000

### Gleichheitstest der Gruppenmittelwerte

	Wilks-Lambda	F	df1	df2	Signifikanz
Task&Needs - Chemical Reactions	,426	23,331	3	52	,000
Task&Needs - Sequences	,407	25,295	3	52	,000
Task&Needs - Substances	,646	9,504	3	52	,000
Task&Needs - Structures	,409	25,053	3	52	,000
Task&Needs - Facts	,864	2,734	3	52	,053
Task&Needs - Literature	,924	1,420	3	52	,247
Task&Needs - Full Text	,918	1,539	3	52	,215
Task&Needs - Abstracts	,910	1,713	3	52	,176
Task&Needs - Patents	,753	5,689	3	52	,002
Task&Needs - Poster	,890	2,140	3	52	,106
Task&Needs - Reviews	,932	1,265	3	52	,296
Task&Needs - Books	,902	1,885	3	52	,144
Task&Needs - Citations	,903	1,867	3	52	,147
Task&Needs - Scientific Terms	,710	7,077	3	52	,000
Task&Needs - Synonyms	,760	5,466	3	52	,002
Task&Needs - Methods	,772	5,131	3	52	,003

**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances	Task&Needs - Structures
Kovarianz	Task&Needs - Chemical Reactions	,947	-,069	,326	,163
	Task&Needs - Sequences	-,069	,790	-,045	,009
	Task&Needs - Substances	,326	-,045	,938	,237
	Task&Needs - Structures	,163	,009	,237	,734
	Task&Needs - Facts	,122	,131	,225	,076
	Task&Needs - Literature	-,049	-,048	-,010	,042
	Task&Needs - Full Text	,051	-,034	,020	,163
	Task&Needs - Abstracts	,050	,189	,065	,037
	Task&Needs - Patents	,184	-,057	,031	-,070
	Task&Needs - Poster	,111	-,004	,150	,165
	Task&Needs - Reviews	-,058	-,119	,037	,182
	Task&Needs - Books	-,123	,066	-,149	,009
	Task&Needs - Citations	-,086	-,223	,008	,063
	Task&Needs - Scientific Terms	,066	-,093	-,146	-,048
	Task&Needs - Synonyms	,048	-,025	-,078	,151
	Task&Needs - Methods	-,016	,069	-,062	,042
Korrelation	Task&Needs - Chemical Reactions	1,000	-,080	,346	,195
	Task&Needs - Sequences	-,080	1,000	-,052	,012
	Task&Needs - Substances	,346	-,052	1,000	,286
	Task&Needs - Structures	,195	,012	,286	1,000
	Task&Needs - Facts	,117	,138	,217	,083
	Task&Needs - Literature	-,085	-,093	-,018	,083
	Task&Needs - Full Text	,088	-,064	,035	,323
	Task&Needs - Abstracts	,077	,317	,100	,063
	Task&Needs - Patents	,214	-,073	,036	-,092
	Task&Needs - Poster	,133	-,005	,182	,226
	Task&Needs - Reviews	-,074	-,168	,048	,265
	Task&Needs - Books	-,145	,085	-,176	,011
	Task&Needs - Citations	-,080	-,226	,008	,066
	Task&Needs - Scientific Terms	,065	-,102	-,146	-,054
	Task&Needs - Synonyms	,050	-,029	-,082	,179
	Task&Needs - Methods	-,019	,091	-,076	,057

**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Facts	Task&Needs - Literature	Task&Needs - Full Text	Task&Needs - Abstracts
Kovarianz	Task&Needs - Chemical Reactions	,122	-,049	,051	,050
	Task&Needs - Sequences	,131	-,048	-,034	,189
	Task&Needs - Substances	,225	-,010	,020	,065
	Task&Needs - Structures	,076	,042	,163	,037
	Task&Needs - Facts	1,144	,029	,000	,180
	Task&Needs - Literature	,029	,344	,122	,017
	Task&Needs - Full Text	,000	,122	,348	,015
	Task&Needs - Abstracts	,180	,017	,015	,452
	Task&Needs - Patents	-,007	-,001	-,074	,040
	Task&Needs - Poster	-,044	,022	,041	,140
	Task&Needs - Reviews	-,042	,143	,087	,012
	Task&Needs - Books	,063	,074	,048	,132
	Task&Needs - Citations	,017	,060	-,124	-,245
	Task&Needs - Scientific Terms	-,062	,136	-,033	-,110
	Task&Needs - Synonyms	-,161	,137	-,077	-,022
	Task&Needs - Methods	,273	,001	,152	,083
Korrelation	Task&Needs - Chemical Reactions	,117	-,085	,088	,077
	Task&Needs - Sequences	,138	-,093	-,064	,317
	Task&Needs - Substances	,217	-,018	,035	,100
	Task&Needs - Structures	,083	,083	,323	,063
	Task&Needs - Facts	1,000	,046	,000	,250
	Task&Needs - Literature	,046	1,000	,353	,044
	Task&Needs - Full Text	,000	,353	1,000	,038
	Task&Needs - Abstracts	,250	,044	,038	1,000
	Task&Needs - Patents	-,007	-,003	-,141	,068
	Task&Needs - Poster	-,049	,044	,080	,244
	Task&Needs - Reviews	-,049	,305	,185	,022
	Task&Needs - Books	,067	,146	,094	,225
	Task&Needs - Citations	,014	,092	-,190	-,328
	Task&Needs - Scientific Terms	-,056	,226	-,055	-,159
	Task&Needs - Synonyms	-,153	,238	-,132	-,033
	Task&Needs - Methods	,299	,002	,302	,144

**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Patents	Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
Kovarianz	Task&Needs - Chemical Reactions	,184	,111	-,058	-,123
	Task&Needs - Sequences	-,057	-,004	-,119	,066
	Task&Needs - Substances	,031	,150	,037	-,149
	Task&Needs - Structures	-,070	,165	,182	,009
	Task&Needs - Facts	-,007	-,044	-,042	,063
	Task&Needs - Literature	-,001	,022	,143	,074
	Task&Needs - Full Text	-,074	,041	,087	,048
	Task&Needs - Abstracts	,040	,140	,012	,132
	Task&Needs - Patents	,785	,051	-,008	-,098
	Task&Needs - Poster	,051	,728	,197	-,029
	Task&Needs - Reviews	-,008	,197	,640	,308
	Task&Needs - Books	-,098	-,029	,308	,760
	Task&Needs - Citations	,192	-,035	,107	,024
	Task&Needs - Scientific Terms	-,056	,184	,296	-,008
	Task&Needs - Synonyms	,070	,278	,202	-,005
	Task&Needs - Methods	-,101	-,179	,104	,199
Korrelation	Task&Needs - Chemical Reactions	,214	,133	-,074	-,145
	Task&Needs - Sequences	-,073	-,005	-,168	,085
	Task&Needs - Substances	,036	,182	,048	-,176
	Task&Needs - Structures	-,092	,226	,265	,011
	Task&Needs - Facts	-,007	-,049	-,049	,067
	Task&Needs - Literature	-,003	,044	,305	,146
	Task&Needs - Full Text	-,141	,080	,185	,094
	Task&Needs - Abstracts	,068	,244	,022	,225
	Task&Needs - Patents	1,000	,068	-,011	-,127
	Task&Needs - Poster	,068	1,000	,288	-,038
	Task&Needs - Reviews	-,011	,288	1,000	,442
	Task&Needs - Books	-,127	-,038	,442	1,000
	Task&Needs - Citations	,195	-,036	,121	,025
	Task&Needs - Scientific Terms	-,061	,209	,360	-,009
	Task&Needs - Synonyms	,080	,331	,257	-,006
	Task&Needs - Methods	-,134	-,246	,152	,268

**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Citations	Task&Needs - Scientific Terms	Task&Needs - Synonyms	Task&Needs - Methods
Kovarianz	Task&Needs - Chemical Reactions	-,086	,066	,048	-,016
	Task&Needs - Sequences	-,223	-,093	-,025	,069
	Task&Needs - Substances	,008	-,146	-,078	-,062
	Task&Needs - Structures	,063	-,048	,151	,042
	Task&Needs - Facts	,017	-,062	-,161	,273
	Task&Needs - Literature	,060	,136	,137	,001
	Task&Needs - Full Text	-,124	-,033	-,077	,152
	Task&Needs - Abstracts	-,245	-,110	-,022	,083
	Task&Needs - Patents	,192	-,056	,070	-,101
	Task&Needs - Poster	-,035	,184	,278	-,179
	Task&Needs - Reviews	,107	,296	,202	,104
	Task&Needs - Books	,024	-,008	-,005	,199
	Task&Needs - Citations	1,230	,181	,153	-,130
	Task&Needs - Scientific Terms	,181	1,059	,372	-,045
	Task&Needs - Synonyms	,153	,372	,968	-,049
	Task&Needs - Methods	-,130	-,045	-,049	,727
Korrelation	Task&Needs - Chemical Reactions	-,080	,065	,050	-,019
	Task&Needs - Sequences	-,226	-,102	-,029	,091
	Task&Needs - Substances	,008	-,146	-,082	-,076
	Task&Needs - Structures	,066	-,054	,179	,057
	Task&Needs - Facts	,014	-,056	-,153	,299
	Task&Needs - Literature	,092	,226	,238	,002
	Task&Needs - Full Text	-,190	-,055	-,132	,302
	Task&Needs - Abstracts	-,328	-,159	-,033	,144
	Task&Needs - Patents	,195	-,061	,080	-,134
	Task&Needs - Poster	-,036	,209	,331	-,246
	Task&Needs - Reviews	,121	,360	,257	,152
	Task&Needs - Books	,025	-,009	-,006	,268
	Task&Needs - Citations	1,000	,158	,140	-,138
	Task&Needs - Scientific Terms	,158	1,000	,368	-,051
	Task&Needs - Synonyms	,140	,368	1,000	-,058
	Task&Needs - Methods	-,138	-,051	-,058	1,000

a. Die Kovarianzmatrix hat einen Freiheitsgrad von 52.



Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances
1	Task&Needs - Chemical Reactions	,257	,012	,012
	Task&Needs - Sequences	,012	,968	,105
	Task&Needs - Substances	,012	,105	1,150
	Task&Needs - Structures	,184	,055	,192
	Task&Needs - Facts	,004	,292	,156
	Task&Needs - Literature	-,089	-,081	-,081
	Task&Needs - Full Text	,061	-,057	-,057
	Task&Needs - Abstracts	,008	,267	-,142
	Task&Needs - Patents	,075	-,306	,148
	Task&Needs - Poster	-,071	-,128	-,038
	Task&Needs - Reviews	-,049	-,202	-,020
	Task&Needs - Books	,038	,188	-,403
	Task&Needs - Citations	,073	-,543	,138
	Task&Needs - Scientific Terms	-,168	-,022	-,385
	Task&Needs - Synonyms	-,093	-,146	-,101
	Task&Needs - Methods	,168	,249	-,069
2	Task&Needs - Chemical Reactions	1,767	,167	,767
	Task&Needs - Sequences	,167	,167	-,033
	Task&Needs - Substances	,767	-,033	1,367
	Task&Needs - Structures	,500	-,300	1,300
	Task&Needs - Facts	,633	,033	1,033
	Task&Needs - Literature	,100	,100	,100
	Task&Needs - Full Text	-,067	,133	,533
	Task&Needs - Abstracts	,333	,133	,133
	Task&Needs - Patents	,600	,400	-,600
	Task&Needs - Poster	,633	,033	,633
	Task&Needs - Reviews	-,600	,000	,400
	Task&Needs - Books	,000	,000	,400
	Task&Needs - Citations	,533	-,267	,733
	Task&Needs - Scientific Terms	,067	-,133	-,333
	Task&Needs - Synonyms	-,433	-,033	-,233
	Task&Needs - Methods	-,967	,033	,233

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances
3	Task&Needs - Chemical Reactions	1,385	-,462	,385
	Task&Needs - Sequences	-,462	1,385	-,308
	Task&Needs - Substances	,385	-,308	,418
	Task&Needs - Structures	-,077	,000	,154
	Task&Needs - Facts	,231	,000	,209
	Task&Needs - Literature	-,077	-,077	,088
	Task&Needs - Full Text	,000	-,077	-,033
	Task&Needs - Abstracts	-,154	,231	,154
	Task&Needs - Patents	,385	,154	,055
	Task&Needs - Poster	-,077	,154	,055
	Task&Needs - Reviews	,000	-,077	,077
	Task&Needs - Books	-,385	,000	,022
	Task&Needs - Citations	-,385	,231	-,418
	Task&Needs - Scientific Terms	,077	-,308	-,176
	Task&Needs - Synonyms	,231	,077	-,165
	Task&Needs - Methods	,000	-,231	-,110
4	Task&Needs - Chemical Reactions	1,397	,109	,654
	Task&Needs - Sequences	,109	,077	-,038
	Task&Needs - Substances	,654	-,038	,936
	Task&Needs - Structures	,244	,064	-,032
	Task&Needs - Facts	,006	,019	,032
	Task&Needs - Literature	-,006	-,019	-,032
	Task&Needs - Full Text	,135	-,013	,006
	Task&Needs - Abstracts	,231	,026	,321
	Task&Needs - Patents	-,006	-,019	,051
	Task&Needs - Poster	,429	,038	,397
	Task&Needs - Reviews	,090	-,064	-,051
	Task&Needs - Books	-,186	-,058	-,096
	Task&Needs - Citations	-,314	-,109	-,071
	Task&Needs - Scientific Terms	,481	,026	,404
	Task&Needs - Synonyms	,308	,090	,122
	Task&Needs - Methods	,026	,077	-,122

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls	Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances
Gesamt			
Task&Needs - Chemical Reactions	2,101	,138	1,042
Task&Needs - Sequences	,138	1,836	,270
Task&Needs - Substances	1,042	,270	1,374
Task&Needs - Structures	1,163	,538	,918
Task&Needs - Facts	,558	,179	,486
Task&Needs - Literature	-,146	,029	-,046
Task&Needs - Full Text	,057	,101	,057
Task&Needs - Abstracts	-,114	,210	-,037
Task&Needs - Patents	,244	,460	,162
Task&Needs - Poster	,144	-,074	,131
Task&Needs - Reviews	-,130	-,010	-,003
Task&Needs - Books	,041	-,156	-,091
Task&Needs - Citations	,177	-,094	,158
Task&Needs - Scientific Terms	,285	,294	,099
Task&Needs - Synonyms	,171	,497	,107
Task&Needs - Methods	,117	,419	,057

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Structures	Task&Needs - Facts	Task&Needs - Literature
1	Task&Needs - Chemical Reactions	,184	,004	-,089
	Task&Needs - Sequences	,055	,292	-,081
	Task&Needs - Substances	,192	,156	-,081
	Task&Needs - Structures	,767	-,239	-,006
	Task&Needs - Facts	-,239	1,431	-,012
	Task&Needs - Literature	-,006	-,012	,312
	Task&Needs - Full Text	,225	-,231	-,002
	Task&Needs - Abstracts	,022	,043	-,024
	Task&Needs - Patents	,138	,095	,002
	Task&Needs - Poster	,123	-,482	,032
	Task&Needs - Reviews	,057	-,158	,194
	Task&Needs - Books	-,249	,047	,115
	Task&Needs - Citations	-,083	,198	,053
	Task&Needs - Scientific Terms	-,269	,144	,186
	Task&Needs - Synonyms	,188	-,352	,279
	Task&Needs - Methods	,132	,310	,042
2	Task&Needs - Chemical Reactions	,500	,633	,100
	Task&Needs - Sequences	-,300	,033	,100
	Task&Needs - Substances	1,300	1,033	,100
	Task&Needs - Structures	1,900	,700	-,300
	Task&Needs - Facts	,700	,967	,300
	Task&Needs - Literature	-,300	,300	,300
	Task&Needs - Full Text	,200	,467	,200
	Task&Needs - Abstracts	-,200	,267	,200
	Task&Needs - Patents	-1,200	-,200	,200
	Task&Needs - Poster	,500	,567	,100
	Task&Needs - Reviews	,200	,400	,200
	Task&Needs - Books	,200	,400	,200
	Task&Needs - Citations	1,200	,467	-,200
	Task&Needs - Scientific Terms	,200	-,467	-,400
	Task&Needs - Synonyms	-,100	-,167	-,100
	Task&Needs - Methods	-,100	,367	,300

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Structures	Task&Needs - Facts	Task&Needs - Literature
3	Task&Needs - Chemical Reactions	-,077	,231	-,077
	Task&Needs - Sequences	,000	,000	-,077
	Task&Needs - Substances	,154	,209	,088
	Task&Needs - Structures	,731	,308	,192
	Task&Needs - Facts	,308	,681	-,033
	Task&Needs - Literature	,192	-,033	,555
	Task&Needs - Full Text	,077	,099	,297
	Task&Needs - Abstracts	,038	,077	-,038
	Task&Needs - Patents	,000	-,011	-,033
	Task&Needs - Poster	,154	-,088	-,110
	Task&Needs - Reviews	,500	-,077	,115
	Task&Needs - Books	,308	-,143	-,044
	Task&Needs - Citations	,077	-,209	,220
	Task&Needs - Scientific Terms	,115	-,396	,390
	Task&Needs - Synonyms	,154	-,121	-,132
Task&Needs - Methods	-,077	-,055	-,088	
4	Task&Needs - Chemical Reactions	,244	,006	-,006
	Task&Needs - Sequences	,064	,019	-,019
	Task&Needs - Substances	-,032	,032	-,032
	Task&Needs - Structures	,192	,141	,109
	Task&Needs - Facts	,141	1,192	,058
	Task&Needs - Literature	,109	,058	,192
	Task&Needs - Full Text	,128	,122	,128
	Task&Needs - Abstracts	,160	,506	,077
	Task&Needs - Patents	-,058	-,109	-,058
	Task&Needs - Poster	,115	,551	,115
	Task&Needs - Reviews	,058	,026	,058
	Task&Needs - Books	,077	,173	,077
	Task&Needs - Citations	-,160	-,256	,006
	Task&Needs - Scientific Terms	,077	,090	-,006
	Task&Needs - Synonyms	,186	,147	,269
Task&Needs - Methods	,064	,519	-,103	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Structures	Task&Needs - Facts	Task&Needs - Literature
Gesamt	Task&Needs - Chemical Reactions	1,163	,558	-,146
	Task&Needs - Sequences	,538	,179	,029
	Task&Needs - Substances	,918	,486	-,046
	Task&Needs - Structures	1,697	,452	,006
	Task&Needs - Facts	,452	1,252	-,003
	Task&Needs - Literature	,006	-,003	,352
	Task&Needs - Full Text	,229	,010	,138
	Task&Needs - Abstracts	-,106	,099	,021
	Task&Needs - Patents	,165	,010	,038
	Task&Needs - Poster	,110	-,049	-,018
	Task&Needs - Reviews	,117	-,083	,135
	Task&Needs - Books	,051	,119	,033
	Task&Needs - Citations	,252	,088	,016
	Task&Needs - Scientific Terms	,355	,060	,192
	Task&Needs - Synonyms	,456	-,099	,183
	Task&Needs - Methods	,207	,275	-,011

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Full Text	Task&Needs - Abstracts	Task&Needs - Patents
1	Task&Needs - Chemical Reactions	,061	,008	,075
	Task&Needs - Sequences	-,057	,267	-,306
	Task&Needs - Substances	-,057	-,142	,148
	Task&Needs - Structures	,225	,022	,138
	Task&Needs - Facts	-,231	,043	,095
	Task&Needs - Literature	-,002	-,024	,002
	Task&Needs - Full Text	,348	-,008	-,030
	Task&Needs - Abstracts	-,008	,269	-,083
	Task&Needs - Patents	-,030	-,083	,893
	Task&Needs - Poster	,162	,036	,020
	Task&Needs - Reviews	,049	-,089	-,004
	Task&Needs - Books	-,083	,095	-,235
	Task&Needs - Citations	-,164	-,332	,391
	Task&Needs - Scientific Terms	-,014	-,121	-,304
	Task&Needs - Synonyms	-,180	-,067	-,047
Task&Needs - Methods	,150	-,016	-,105	
2	Task&Needs - Chemical Reactions	-,067	,333	,600
	Task&Needs - Sequences	,133	,133	,400
	Task&Needs - Substances	,533	,133	-,600
	Task&Needs - Structures	,200	-,200	-1,200
	Task&Needs - Facts	,467	,267	-,200
	Task&Needs - Literature	,200	,200	,200
	Task&Needs - Full Text	,667	,067	-,400
	Task&Needs - Abstracts	,067	,267	,600
	Task&Needs - Patents	-,400	,600	2,400
	Task&Needs - Poster	,067	,267	,400
	Task&Needs - Reviews	,600	,000	-,600
	Task&Needs - Books	,400	,000	-,600
	Task&Needs - Citations	-,333	,067	,000
	Task&Needs - Scientific Terms	-,667	-,067	,600
	Task&Needs - Synonyms	-,267	,133	,800
Task&Needs - Methods	,667	,067	-,400	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Full Text	Task&Needs - Abstracts	Task&Needs - Patents
3	Task&Needs - Chemical Reactions	,000	-,154	,385
	Task&Needs - Sequences	-,077	,231	,154
	Task&Needs - Substances	-,033	,154	,055
	Task&Needs - Structures	,077	,038	,000
	Task&Needs - Facts	,099	,077	-,011
	Task&Needs - Literature	,297	-,038	-,033
	Task&Needs - Full Text	,418	-,077	-,055
	Task&Needs - Abstracts	-,077	,577	,077
	Task&Needs - Patents	-,055	,077	,374
	Task&Needs - Poster	-,209	,077	,143
	Task&Needs - Reviews	-,077	-,038	,077
	Task&Needs - Books	,055	,231	,011
	Task&Needs - Citations	-,044	-,308	-,055
	Task&Needs - Scientific Terms	,099	-,346	,143
	Task&Needs - Synonyms	,011	-,077	,187
	Task&Needs - Methods	,110	,000	-,132
4	Task&Needs - Chemical Reactions	,135	,231	-,006
	Task&Needs - Sequences	-,013	,026	-,019
	Task&Needs - Substances	,006	,321	,051
	Task&Needs - Structures	,128	,160	-,058
	Task&Needs - Facts	,122	,506	-,109
	Task&Needs - Literature	,128	,077	-,058
	Task&Needs - Full Text	,141	,135	-,038
	Task&Needs - Abstracts	,135	,731	-,006
	Task&Needs - Patents	-,038	-,006	,359
	Task&Needs - Poster	,077	,346	-,135
	Task&Needs - Reviews	,122	,256	,141
	Task&Needs - Books	,135	,147	,244
	Task&Needs - Citations	-,051	-,147	,173
	Task&Needs - Scientific Terms	,051	,147	-,090
	Task&Needs - Synonyms	,096	,058	-,147
	Task&Needs - Methods	-,013	,359	,064



Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Full Text	Task&Needs - Abstracts	Task&Needs - Patents
Gesamt	Task&Needs - Chemical Reactions	,057	-,114	,244
	Task&Needs - Sequences	,101	,210	,460
	Task&Needs - Substances	,057	-,037	,162
	Task&Needs - Structures	,229	-,106	,165
	Task&Needs - Facts	,010	,099	,010
	Task&Needs - Literature	,138	,021	,038
	Task&Needs - Full Text	,358	,005	-,005
	Task&Needs - Abstracts	,005	,470	,055
	Task&Needs - Patents	-,005	,055	,986
	Task&Needs - Poster	-,003	,159	,011
	Task&Needs - Reviews	,078	,049	,042
	Task&Needs - Books	,013	,094	-,201
	Task&Needs - Citations	-,135	-,229	,229
	Task&Needs - Scientific Terms	,070	-,181	,129
	Task&Needs - Synonyms	,013	-,036	,313
	Task&Needs - Methods	,153	,117	,067

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
1	Task&Needs - Chemical Reactions	-,071	-,049	,038
	Task&Needs - Sequences	-,128	-,202	,188
	Task&Needs - Substances	-,038	-,020	-,403
	Task&Needs - Structures	,123	,057	-,249
	Task&Needs - Facts	-,482	-,158	,047
	Task&Needs - Literature	,032	,194	,115
	Task&Needs - Full Text	,162	,049	-,083
	Task&Needs - Abstracts	,036	-,089	,095
	Task&Needs - Patents	,020	-,004	-,235
	Task&Needs - Poster	,680	,255	-,217
	Task&Needs - Reviews	,255	,431	,043
	Task&Needs - Books	-,217	,043	,632
	Task&Needs - Citations	-,375	-,107	-,032
	Task&Needs - Scientific Terms	,221	,447	,075
	Task&Needs - Synonyms	,241	,261	-,024
	Task&Needs - Methods	-,267	-,083	,198
2	Task&Needs - Chemical Reactions	,633	-,600	,000
	Task&Needs - Sequences	,033	,000	,000
	Task&Needs - Substances	,633	,400	,400
	Task&Needs - Structures	,500	,200	,200
	Task&Needs - Facts	,567	,400	,400
	Task&Needs - Literature	,100	,200	,200
	Task&Needs - Full Text	,067	,600	,400
	Task&Needs - Abstracts	,267	,000	,000
	Task&Needs - Patents	,400	-,600	-,600
	Task&Needs - Poster	,567	,000	,000
	Task&Needs - Reviews	,000	,800	,400
	Task&Needs - Books	,000	,400	,400
	Task&Needs - Citations	,667	-,200	-,200
	Task&Needs - Scientific Terms	,133	-,600	-,600
	Task&Needs - Synonyms	,233	,000	-,400
	Task&Needs - Methods	-,033	1,000	,400

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
3	Task&Needs - Chemical Reactions	-,077	,000	-,385
	Task&Needs - Sequences	,154	-,077	,000
	Task&Needs - Substances	,055	,077	,022
	Task&Needs - Structures	,154	,500	,308
	Task&Needs - Facts	-,088	-,077	-,143
	Task&Needs - Literature	-,110	,115	-,044
	Task&Needs - Full Text	-,209	-,077	,055
	Task&Needs - Abstracts	,077	-,038	,231
	Task&Needs - Patents	,143	,077	,011
	Task&Needs - Poster	,374	,385	,396
	Task&Needs - Reviews	,385	,885	,615
	Task&Needs - Books	,396	,615	1,143
	Task&Needs - Citations	,099	,462	-,022
	Task&Needs - Scientific Terms	,066	,500	,011
	Task&Needs - Synonyms	,110	,385	,275
	Task&Needs - Methods	-,132	-,077	,132
4	Task&Needs - Chemical Reactions	,429	,090	-,186
	Task&Needs - Sequences	,038	-,064	-,058
	Task&Needs - Substances	,397	-,051	-,096
	Task&Needs - Structures	,115	,058	,077
	Task&Needs - Facts	,551	,026	,173
	Task&Needs - Literature	,115	,058	,077
	Task&Needs - Full Text	,077	,122	,135
	Task&Needs - Abstracts	,346	,256	,147
	Task&Needs - Patents	-,135	,141	,244
	Task&Needs - Poster	1,269	-,032	-,154
	Task&Needs - Reviews	-,032	,692	,423
	Task&Needs - Books	-,154	,423	,731
	Task&Needs - Citations	,154	,244	,269
	Task&Needs - Scientific Terms	,263	,173	,064
	Task&Needs - Synonyms	,545	-,019	-,109
	Task&Needs - Methods	-,128	,269	,192

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
Gesamt	Task&Needs - Chemical Reactions	,144	-,130	,041
	Task&Needs - Sequences	-,074	-,010	-,156
	Task&Needs - Substances	,131	-,003	-,091
	Task&Needs - Structures	,110	,117	,051
	Task&Needs - Facts	-,049	-,083	,119
	Task&Needs - Literature	-,018	,135	,033
	Task&Needs - Full Text	-,003	,078	,013
	Task&Needs - Abstracts	,159	,049	,094
	Task&Needs - Patents	,011	,042	-,201
	Task&Needs - Poster	,774	,221	,004
	Task&Needs - Reviews	,221	,649	,260
	Task&Needs - Books	,004	,260	,797
	Task&Needs - Citations	,042	,135	,047
	Task&Needs - Scientific Terms	,015	,221	-,073
	Task&Needs - Synonyms	,175	,205	-,110
	Task&Needs - Methods	-,107	,174	,137

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Citations	Task&Needs - Scientific Terms
1	Task&Needs - Chemical Reactions	,073	-,168
	Task&Needs - Sequences	-,543	-,022
	Task&Needs - Substances	,138	-,385
	Task&Needs - Structures	-,083	-,269
	Task&Needs - Facts	,198	,144
	Task&Needs - Literature	,053	,186
	Task&Needs - Full Text	-,164	-,014
	Task&Needs - Abstracts	-,332	-,121
	Task&Needs - Patents	,391	-,304
	Task&Needs - Poster	-,375	,221
	Task&Needs - Reviews	-,107	,447
	Task&Needs - Books	-,032	,075
	Task&Needs - Citations	1,292	-,172
	Task&Needs - Scientific Terms	-,172	1,300
	Task&Needs - Synonyms	,128	,360
Task&Needs - Methods	-,146	,018	
2	Task&Needs - Chemical Reactions	,533	,067
	Task&Needs - Sequences	-,267	-,133
	Task&Needs - Substances	,733	-,333
	Task&Needs - Structures	1,200	,200
	Task&Needs - Facts	,467	-,467
	Task&Needs - Literature	-,200	-,400
	Task&Needs - Full Text	-,333	-,667
	Task&Needs - Abstracts	,067	-,067
	Task&Needs - Patents	,000	,600
	Task&Needs - Poster	,667	,133
	Task&Needs - Reviews	-,200	-,600
	Task&Needs - Books	-,200	-,600
	Task&Needs - Citations	1,467	,733
	Task&Needs - Scientific Terms	,733	1,067
	Task&Needs - Synonyms	,533	,667
Task&Needs - Methods	-,333	-,667	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Citations	Task&Needs - Scientific Terms
3	Task&Needs - Chemical Reactions	-,385	,077
	Task&Needs - Sequences	,231	-,308
	Task&Needs - Substances	-,418	-,176
	Task&Needs - Structures	,077	,115
	Task&Needs - Facts	-,209	-,396
	Task&Needs - Literature	,220	,390
	Task&Needs - Full Text	-,044	,099
	Task&Needs - Abstracts	-,308	-,346
	Task&Needs - Patents	-,055	,143
	Task&Needs - Poster	,099	,066
	Task&Needs - Reviews	,462	,500
	Task&Needs - Books	-,022	,011
	Task&Needs - Citations	1,495	,868
	Task&Needs - Scientific Terms	,868	1,104
	Task&Needs - Synonyms	,242	,341
Task&Needs - Methods	,033	-,055	
4	Task&Needs - Chemical Reactions	-,314	,481
	Task&Needs - Sequences	-,109	,026
	Task&Needs - Substances	-,071	,404
	Task&Needs - Structures	-,160	,077
	Task&Needs - Facts	-,256	,090
	Task&Needs - Literature	,006	-,006
	Task&Needs - Full Text	-,051	,051
	Task&Needs - Abstracts	-,147	,147
	Task&Needs - Patents	,173	-,090
	Task&Needs - Poster	,154	,263
	Task&Needs - Reviews	,244	,173
	Task&Needs - Books	,269	,064
	Task&Needs - Citations	,731	-,147
	Task&Needs - Scientific Terms	-,147	,564
	Task&Needs - Synonyms	-,058	,308
Task&Needs - Methods	-,192	,109	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Citations	Task&Needs - Scientific Terms
Gesamt	Task&Needs - Chemical Reactions	,177	,285
	Task&Needs - Sequences	-,094	,294
	Task&Needs - Substances	,158	,099
	Task&Needs - Structures	,252	,355
	Task&Needs - Facts	,088	,060
	Task&Needs - Literature	,016	,192
	Task&Needs - Full Text	-,135	,070
	Task&Needs - Abstracts	-,229	-,181
	Task&Needs - Patents	,229	,129
	Task&Needs - Poster	,042	,015
	Task&Needs - Reviews	,135	,221
	Task&Needs - Books	,047	-,073
	Task&Needs - Citations	1,288	,114
	Task&Needs - Scientific Terms	,114	1,410
	Task&Needs - Synonyms	,156	,638
	Task&Needs - Methods	,003	-,057

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Synonyms	Task&Needs - Methods
1	Task&Needs - Chemical Reactions	-,093	,168
	Task&Needs - Sequences	-,146	,249
	Task&Needs - Substances	-,101	-,069
	Task&Needs - Structures	,188	,132
	Task&Needs - Facts	-,352	,310
	Task&Needs - Literature	,279	,042
	Task&Needs - Full Text	-,180	,150
	Task&Needs - Abstracts	-,067	-,016
	Task&Needs - Patents	-,047	-,105
	Task&Needs - Poster	,241	-,267
	Task&Needs - Reviews	,261	-,083
	Task&Needs - Books	-,024	,198
	Task&Needs - Citations	,128	-,146
	Task&Needs - Scientific Terms	,360	,018
	Task&Needs - Synonyms	1,130	-,223
Task&Needs - Methods	-,223	,755	
2	Task&Needs - Chemical Reactions	-,433	-,967
	Task&Needs - Sequences	-,033	,033
	Task&Needs - Substances	-,233	,233
	Task&Needs - Structures	-,100	-,100
	Task&Needs - Facts	-,167	,367
	Task&Needs - Literature	-,100	,300
	Task&Needs - Full Text	-,267	,667
	Task&Needs - Abstracts	,133	,067
	Task&Needs - Patents	,800	-,400
	Task&Needs - Poster	,233	-,033
	Task&Needs - Reviews	,000	1,000
	Task&Needs - Books	-,400	,400
	Task&Needs - Citations	,533	-,333
	Task&Needs - Scientific Terms	,667	-,667
	Task&Needs - Synonyms	,967	,233
Task&Needs - Methods	,233	1,367	



Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Synonyms	Task&Needs - Methods
3	Task&Needs - Chemical Reactions	,231	,000
	Task&Needs - Sequences	,077	-,231
	Task&Needs - Substances	-,165	-,110
	Task&Needs - Structures	,154	-,077
	Task&Needs - Facts	-,121	-,055
	Task&Needs - Literature	-,132	-,088
	Task&Needs - Full Text	,011	,110
	Task&Needs - Abstracts	-,077	,000
	Task&Needs - Patents	,187	-,132
	Task&Needs - Poster	,110	-,132
	Task&Needs - Reviews	,385	-,077
	Task&Needs - Books	,275	,132
	Task&Needs - Citations	,242	,033
	Task&Needs - Scientific Terms	,341	-,055
	Task&Needs - Synonyms	,593	,088
	Task&Needs - Methods	,088	,418
4	Task&Needs - Chemical Reactions	,308	,026
	Task&Needs - Sequences	,090	,077
	Task&Needs - Substances	,122	-,122
	Task&Needs - Structures	,186	,064
	Task&Needs - Facts	,147	,519
	Task&Needs - Literature	,269	-,103
	Task&Needs - Full Text	,096	-,013
	Task&Needs - Abstracts	,058	,359
	Task&Needs - Patents	-,147	,064
	Task&Needs - Poster	,545	-,128
	Task&Needs - Reviews	-,019	,269
	Task&Needs - Books	-,109	,192
	Task&Needs - Citations	-,058	-,192
	Task&Needs - Scientific Terms	,308	,109
	Task&Needs - Synonyms	1,077	,006
	Task&Needs - Methods	,006	,744

### Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Synonyms	Task&Needs - Methods
Gesamt	Task&Needs - Chemical Reactions	,171	,117
	Task&Needs - Sequences	,497	,419
	Task&Needs - Substances	,107	,057
	Task&Needs - Structures	,456	,207
	Task&Needs - Facts	-,099	,275
	Task&Needs - Literature	,183	-,011
	Task&Needs - Full Text	,013	,153
	Task&Needs - Abstracts	-,036	,117
	Task&Needs - Patents	,313	,067
	Task&Needs - Poster	,175	-,107
	Task&Needs - Reviews	,205	,174
	Task&Needs - Books	-,110	,137
	Task&Needs - Citations	,156	,003
	Task&Needs - Scientific Terms	,638	-,057
	Task&Needs - Synonyms	1,204	,067
	Task&Needs - Methods	,067	,891

a. Die Kovarianzmatrix für alle Fälle hat einen Freiheitsgrad von 55.

## Analyse 1

### Box-Test auf Gleichheit der Kovarianz-Matrizen

#### Log-Determinanten

Cluster-Nr. des Falls	Rang	Log-Determinante
1	16	-16,424
2	. <sup>a</sup>	. <sup>b</sup>
3	. <sup>c</sup>	. <sup>b</sup>
4	. <sup>d</sup>	. <sup>b</sup>
Gemeinsam innerhalb der Gruppen	16	-8,277

Die Ränge und natürlichen Logarithmen der ausgegebenen Determinanten sind die der Gruppen-Kovarianz-Matrizen.

- a. Rang < 6
- b. Zu wenig Fälle für Nicht-Singularität
- c. Rang < 14
- d. Rang < 13

#### Textergebnisse<sup>a</sup>

Testet die Null-Hypothese der Kovarianz-Matrizen gleicher Grundgesamtheit.

- a. Mit weniger als zwei nicht-singulären Gruppen-Kovarianz-Matrizen kann kein Test durchgeführt werden.

## Zusammenfassung der kanonischen Diskriminanzfunktionen

### Eigenwerte

Funktion	Eigenwert	% der Varianz	Kumulierte %	Kanonische Korrelation
1	4,251 <sup>a</sup>	51,7	51,7	,900
2	2,510 <sup>a</sup>	30,5	82,3	,846
3	1,456 <sup>a</sup>	17,7	100,0	,770

a. Die ersten 3 kanonischen Diskriminanzfunktionen werden in dieser Analyse verwendet.

### Wilks' Lambda

Test der Funktion(en)	Wilks-Lambda	Chi-Quadrat	df	Signifikanz
1 bis 3	,022	171,573	48	,000
2 bis 3	,116	96,942	30	,000
3	,407	40,438	14	,000

### Standardisierte kanonische Diskriminanzfunktionskoeffizienten

	Funktion		
	1	2	3
Task&Needs - Chemical Reactions	,135	-,496	,521
Task&Needs - Sequences	,555	,557	,328
Task&Needs - Substances	,335	,030	-,177
Task&Needs - Structures	,581	-,421	-,047
Task&Needs - Facts	-,024	-,167	-,279
Task&Needs - Literature	-,030	-,059	,182
Task&Needs - Full Text	,071	,355	-,512
Task&Needs - Abstracts	-,276	,226	-,058
Task&Needs - Patents	,374	,289	-,161
Task&Needs - Poster	-,268	-,192	,596
Task&Needs - Reviews	-,314	,453	,399
Task&Needs - Books	,205	-,578	-,289
Task&Needs - Citations	-,056	,096	,495
Task&Needs - Scientific Terms	,500	-,045	-,629
Task&Needs - Synonyms	,139	,266	-,333
Task&Needs - Methods	,092	,119	,733

### Struktur-Matrix

	Funktion		
	1	2	3
Task&Needs - Structures	,535*	-,285	,132
Task&Needs - Substances	,310*	-,215	,126
Task&Needs - Synonyms	,233*	,174	-,071
Task&Needs - Chemical Reactions	,385	-,492*	,273
Task&Needs - Sequences	,452	,461*	,199
Task&Needs - Patents	,208	,232*	,078
Task&Needs - Books	-,039	-,200*	,031
Task&Needs - Facts	,135	-,178*	,025
Task&Needs - Abstracts	-,077	,146*	,116
Task&Needs - Methods	,120	,138	,359*
Task&Needs - Scientific Terms	,251	,042	-,306*
Task&Needs - Poster	-,065	-,043	,263*
Task&Needs - Citations	,058	-,049	,245*
Task&Needs - Reviews	-,015	,115	,163*
Task&Needs - Literature	,024	,131	-,158*
Task&Needs - Full Text	,106	,087	-,123*

Gemeinsame Korrelationen innerhalb der Gruppen zwischen Diskriminanzvariablen und standardisierten kanonischen Diskriminanzfunktionen

Variablen sind nach ihrer absoluten Korrelationsgröße innerhalb der Funktion geordnet.

\*. Größte absolute Korrelation zwischen jeder Variablen und einer Diskriminanzfunktion

### Kanonische Diskriminanzfunktionskoeffizienten

	Funktion		
	1	2	3
Task&Needs - Chemical Reactions	,139	-,510	,535
Task&Needs - Sequences	,624	,626	,369
Task&Needs - Substances	,346	,031	-,182
Task&Needs - Structures	,679	-,491	-,055
Task&Needs - Facts	-,023	-,156	-,261
Task&Needs - Literature	-,050	-,100	,310
Task&Needs - Full Text	,121	,601	-,868
Task&Needs - Abstracts	-,410	,336	-,086
Task&Needs - Patents	,422	,327	-,181
Task&Needs - Poster	-,314	-,225	,698
Task&Needs - Reviews	-,392	,566	,499
Task&Needs - Books	,235	-,663	-,331
Task&Needs - Citations	-,051	,087	,447
Task&Needs - Scientific Terms	,486	-,044	-,611
Task&Needs - Synonyms	,142	,271	-,339
Task&Needs - Methods	,108	,139	,859
(Konstant)	-4,888	-4,266	-1,907

Nicht-standardisierte Koeffizienten

### Funktionen bei den Gruppen-Zentroiden

Cluster-Nr. des Falls	Funktion		
	1	2	3
1	-1,195	1,567	,163
2	-3,473	-2,754	-1,655
3	,784	-1,428	1,632
4	2,873	,036	-1,283

Nicht-standardisierte kanonische Diskriminanzfunktionen, die bezüglich des Gruppen-Mittelwertes bewertet werden

## Klassifizierungsstatistiken

### Zusammenfassung der Verarbeitung von Klassifizierungen

Verarbeitet		72
Ausgeschlossen	Fehlende oder außerhalb des Bereichs liegende Gruppencodes	0
	Wenigstens eine Diskriminanzvariable fehlt	16
In der Ausgabe verwendet		56

### A-priori-Wahrscheinlichkeiten der Gruppen

Cluster-Nr. des Falls	A-priori	In der Analyse verwendete Fälle	
		Ungewichtet	Gewichtet
1	,250	23	23,000
2	,250	6	6,000
3	,250	14	14,000
4	,250	13	13,000
Gesamt	1,000	56	56,000

### Klassifizierungsfunktionskoeffizienten

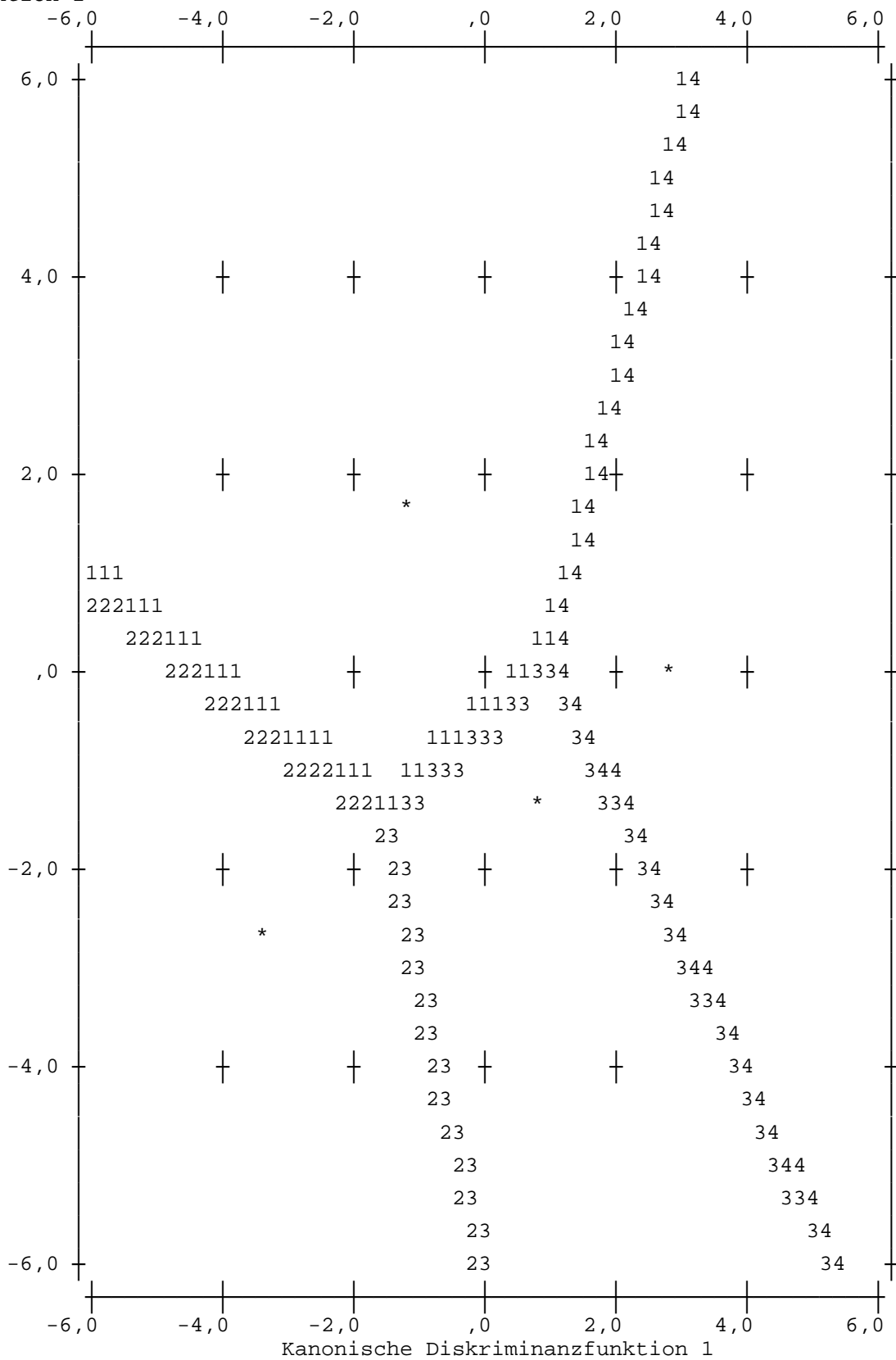
	Cluster-Nr. des Falls			
	1	2	3	4
Task&Needs - Chemical Reactions	-1,251	-,338	1,338	-,679
Task&Needs - Sequences	4,912	,112	4,813	5,958
Task&Needs - Substances	3,021	2,431	3,343	4,642
Task&Needs - Structures	-2,343	-1,669	,389	1,247
Task&Needs - Facts	-,309	,891	-,269	,215
Task&Needs - Literature	5,019	5,004	5,674	4,520
Task&Needs - Full Text	10,635	9,341	7,798	11,461
Task&Needs - Abstracts	6,875	6,512	4,932	4,816
Task&Needs - Patents	4,734	2,693	4,324	6,212
Task&Needs - Poster	1,252	1,671	2,330	-,692
Task&Needs - Reviews	1,855	-,605	,116	-1,328
Task&Needs - Books	-,381	2,550	1,583	2,069
Task&Needs - Citations	3,585	2,512	3,880	2,599
Task&Needs - Scientific Terms	1,532	1,725	1,729	4,460
Task&Needs - Synonyms	1,316	,439	,288	1,968
Task&Needs - Methods	2,943	,532	4,002	1,928
(Konstant)	-74,652	-50,855	-75,054	-88,243

Lineare Diskriminanzfunktionen nach Fisher

Territorien

(Annahme: alle Funktionen außer der ersten zwei sind gleich null.)

Kanonische Diskriminanz-  
funktion 2

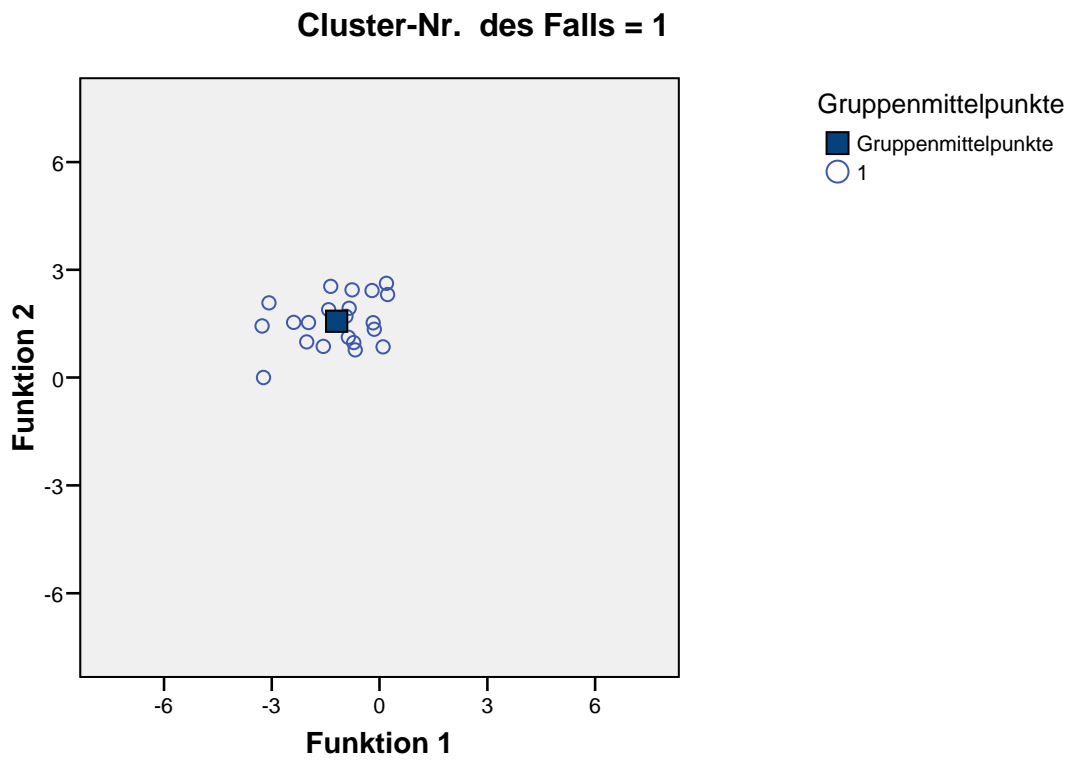


Symbole für Territorien

Symbol	Grp.	Label
1	1	
2	2	
3	3	
4	4	
*		Markiert Gruppenzentroide

## Graphische Darstellung getrennter Gruppen

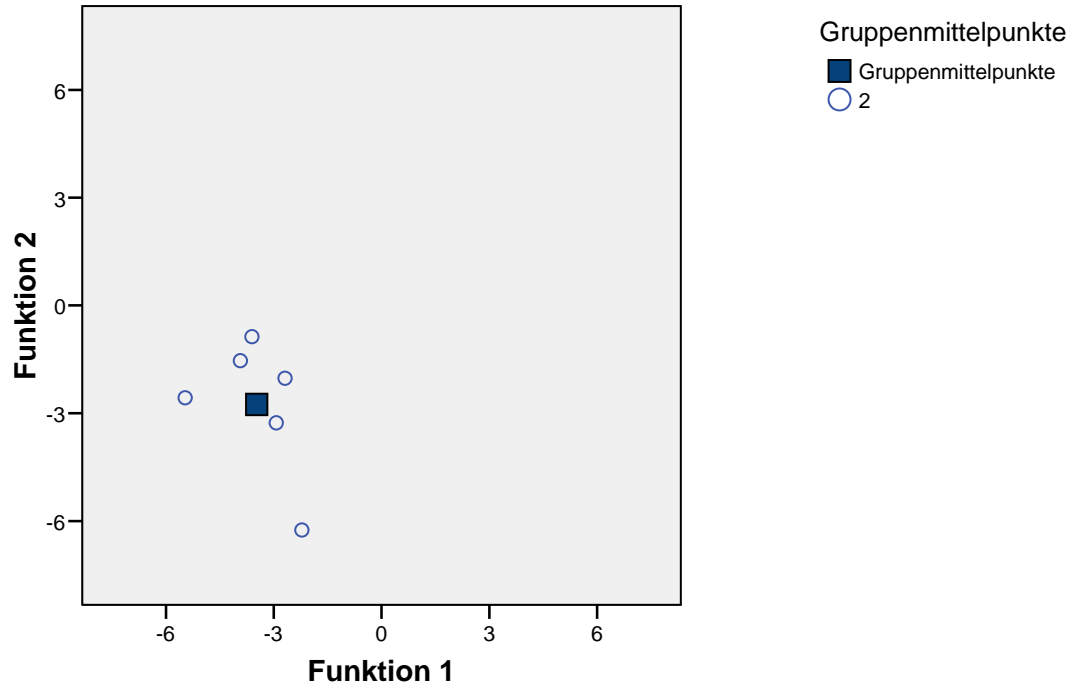
### Kanonische Diskriminanzfunktion





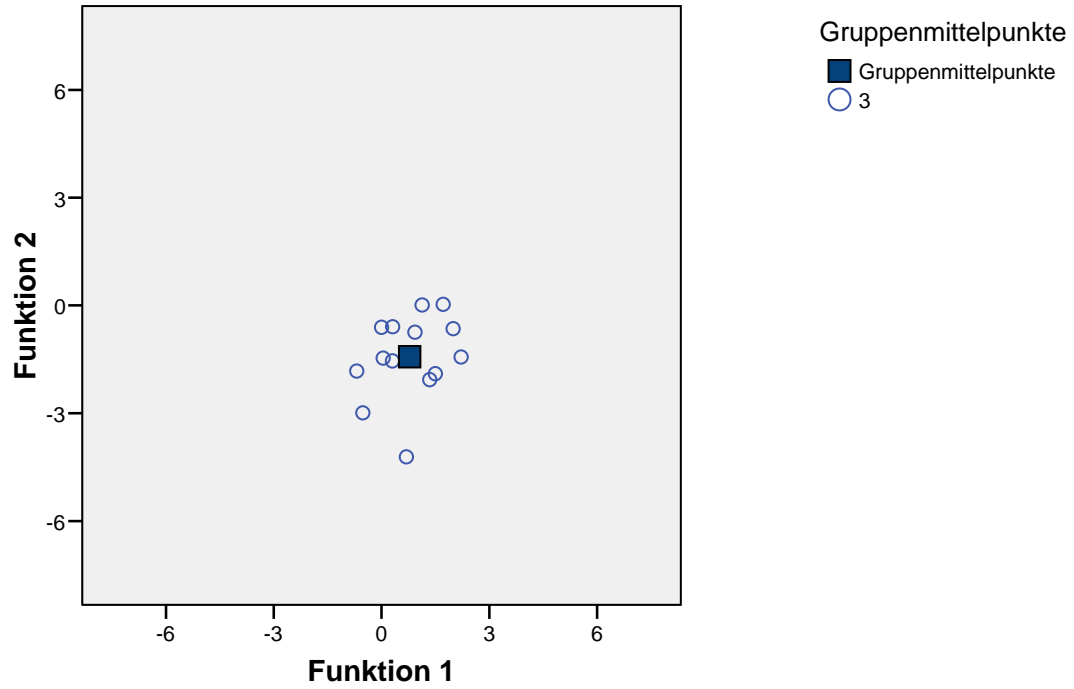
# Kanonische Diskriminanzfunktion

Cluster-Nr. des Falls = 2



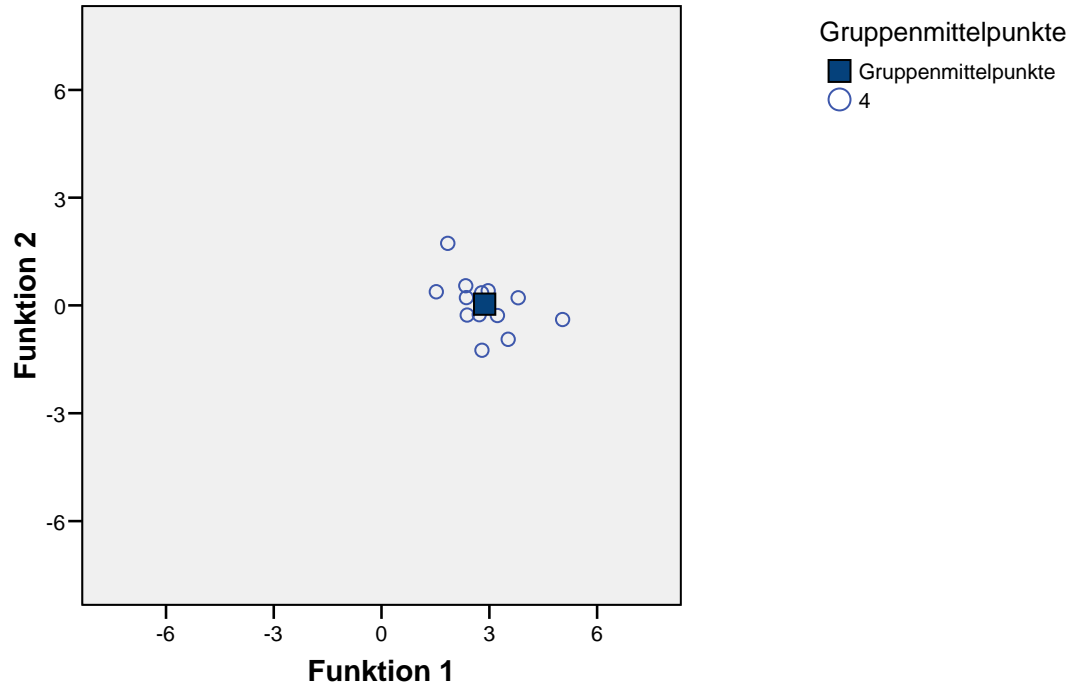
# Kanonische Diskriminanzfunktion

Cluster-Nr. des Falls = 3

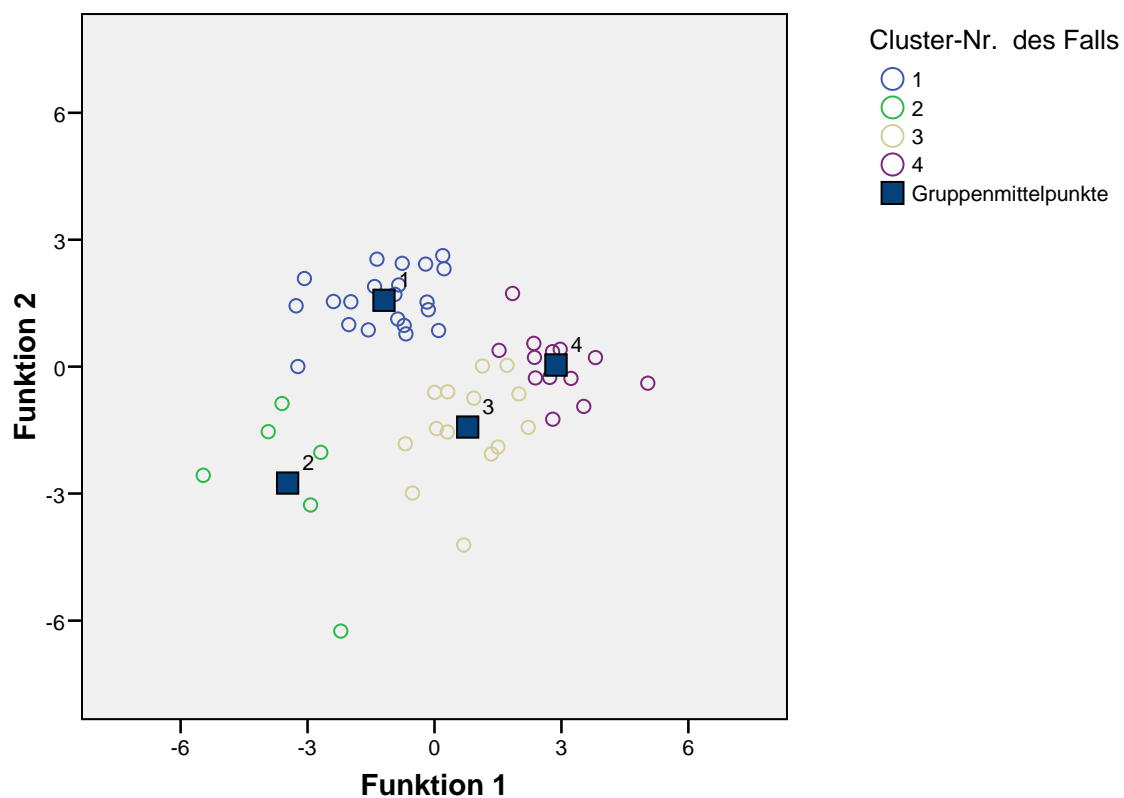


# Kanonische Diskriminanzfunktion

Cluster-Nr. des Falls = 4



## Kanonische Diskriminanzfunktion



### Klassifizierungsergebnisse<sup>b,c</sup>

			Vorhergesagte Gruppenzugehörigkeit		
			1	2	3
Original	Anzahl	1	23	0	0
		2	0	6	0
		3	0	0	14
		4	0	0	1
	%	1	100,0	,0	,0
		2	,0	100,0	,0
		3	,0	,0	100,0
		4	,0	,0	7,7
Kreuzvalidiert <sup>a</sup>	Anzahl	1	19	1	2
		2	1	5	0
		3	0	2	10
		4	1	0	1
	%	1	82,6	4,3	8,7
		2	16,7	83,3	,0
		3	,0	14,3	71,4
		4	7,7	,0	7,7

### Klassifizierungsergebnisse<sup>b,c</sup>

			Vorherges	
			4	Gesamt
Original	Anzahl	1	0	23
		2	0	6
		3	0	14
		4	12	13
	%	1	,0	100,0
		2	,0	100,0
		3	,0	100,0
		4	92,3	100,0
Kreuzvalidiert <sup>a</sup>	Anzahl	1	1	23
		2	0	6
		3	2	14
		4	11	13
	%	1	4,3	100,0
		2	,0	100,0
		3	14,3	100,0
		4	84,6	100,0

a. Die Kreuzvalidierung wird nur für Fälle in dieser Analyse vorgenommen. In der Kreuzvalidierung ist jeder Fall durch die Funktionen klassifiziert, die von allen anderen Fällen außer diesem Fall abgeleitet werden.

b. 98,2% der ursprünglich gruppierten Fälle wurden korrekt klassifiziert.

c. 80,4% der kreuzvalidierten gruppierten Fälle wurden korrekt klassifiziert.

## Diskriminanzanalyse

[DatenSet9] \\RPZMS000362\U\_muehlbs1\$\My Documents\Muehlbacher\Diss\Diss\_Kapitel\work report\_fertigeDateien\scientists results\User Analysis\InfoType.sav

### Analyse der verarbeiteten Fälle.

Ungewichtete Fälle		N	Prozent
Gültig		56	77,8
Ausgeschlossen	Gruppencodes fehlend oder außerhalb des Bereichs	0	,0
	Mindestens eine fehlende Diskriminanz-Variable	0	,0
	Beide fehlenden oder außerhalb des Bereichs liegenden Gruppencodes und mindestens eine fehlende Diskriminanz-Variable	16	22,2
	Gesamtzahl der ausgeschlossenen	16	22,2
Gesamtzahl der Fälle		72	100,0

### Gruppenstatistik

Cluster-Nr. des Falls		Mittelwert	Standardabweichung	Gültige Werte (listenweise)	
				Ungewichtet	Gewichtet
1	Task&Needs - Chemical Reactions	3,29	,914	14	14,000
	Task&Needs - Sequences	3,50	1,160	14	14,000
	Task&Needs - Substances	3,93	,267	14	14,000

### Gruppenstatistik

Cluster-Nr. des Falls	Mittelwert	Standardabweichung	Gültige Werte (listenweise)		
			Ungewichtet	Gewichtet	
1	Task&Needs - Structures	3,86	,363	14	14,000
	Task&Needs - Facts	3,43	,852	14	14,000
	Task&Needs - Literature	3,79	,426	14	14,000
	Task&Needs - Full Text	3,79	,426	14	14,000
	Task&Needs - Abstracts	3,36	,842	14	14,000
	Task&Needs - Patents	3,71	,611	14	14,000
	Task&Needs - Poster	2,93	,997	14	14,000
	Task&Needs - Reviews	3,36	,842	14	14,000
	Task&Needs - Books	2,21	,975	14	14,000
	Task&Needs - Citations	1,93	,997	14	14,000
	Task&Needs - Scientific Terms	3,21	,802	14	14,000
	Task&Needs - Synonyms	3,00	1,038	14	14,000
	Task&Needs - Methods	3,07	,730	14	14,000
	2	Task&Needs - Chemical Reactions	,89	1,167	9
Task&Needs - Sequences		,67	,866	9	9,000
Task&Needs - Substances		2,00	1,118	9	9,000
Task&Needs - Structures		1,44	1,130	9	9,000
Task&Needs - Facts		2,11	1,364	9	9,000
Task&Needs - Literature		3,56	,527	9	9,000
Task&Needs - Full Text		3,33	,707	9	9,000
Task&Needs - Abstracts		3,44	,527	9	9,000
Task&Needs - Patents		2,56	1,509	9	9,000
Task&Needs - Poster		3,11	,782	9	9,000
Task&Needs - Reviews		3,33	,866	9	9,000
Task&Needs - Books		2,78	,667	9	9,000
Task&Needs - Citations		1,67	1,118	9	9,000
Task&Needs - Scientific Terms		1,67	1,000	9	9,000
Task&Needs - Synonyms		1,67	1,118	9	9,000
Task&Needs - Methods		1,89	1,054	9	9,000
3	Task&Needs - Chemical Reactions	,95	,780	19	19,000
	Task&Needs - Sequences	3,37	,831	19	19,000
	Task&Needs - Substances	2,79	,918	19	19,000
	Task&Needs - Structures	2,89	,937	19	19,000
	Task&Needs - Facts	2,74	1,046	19	19,000
	Task&Needs - Literature	3,79	,419	19	19,000
	Task&Needs - Full Text	3,68	,478	19	19,000
	Task&Needs - Abstracts	3,53	,772	19	19,000
	Task&Needs - Patents	3,58	,607	19	19,000
	Task&Needs - Poster	2,84	,834	19	19,000
	Task&Needs - Reviews	3,68	,478	19	19,000
	Task&Needs - Books	2,42	,902	19	19,000
	Task&Needs - Citations	2,32	1,003	19	19,000
	Task&Needs - Scientific Terms	1,95	,848	19	19,000
	Task&Needs - Synonyms	2,47	,841	19	19,000
	Task&Needs - Methods	3,21	,855	19	19,000

### Gruppenstatistik

Cluster-Nr. des Falls	Mittelwert	Standardabweichung	Gültige Werte (listenweise)		
			Ungewichtet	Gewichtet	
4	Task&Needs - Chemical Reactions	,25	,463	8	8,000
	Task&Needs - Sequences	3,63	,518	8	8,000
	Task&Needs - Substances	1,63	1,188	8	8,000
	Task&Needs - Structures	1,13	,835	8	8,000
	Task&Needs - Facts	2,50	1,195	8	8,000
	Task&Needs - Literature	3,75	,463	8	8,000
	Task&Needs - Full Text	3,50	,756	8	8,000
	Task&Needs - Abstracts	3,88	,354	8	8,000
	Task&Needs - Patents	2,88	1,356	8	8,000
	Task&Needs - Poster	2,88	,835	8	8,000
	Task&Needs - Reviews	3,75	,463	8	8,000
	Task&Needs - Books	2,63	,916	8	8,000
	Task&Needs - Citations	1,00	1,069	8	8,000
	Task&Needs - Scientific Terms	2,75	,886	8	8,000
	Task&Needs - Synonyms	2,13	1,126	8	8,000
	Task&Needs - Methods	3,38	,744	8	8,000
5	Task&Needs - Chemical Reactions	2,50	1,378	6	6,000
	Task&Needs - Sequences	3,17	,983	6	6,000
	Task&Needs - Substances	3,33	,816	6	6,000
	Task&Needs - Structures	2,50	1,225	6	6,000
	Task&Needs - Facts	3,50	,548	6	6,000
	Task&Needs - Literature	2,50	,548	6	6,000
	Task&Needs - Full Text	3,17	,753	6	6,000
	Task&Needs - Abstracts	3,83	,408	6	6,000
	Task&Needs - Patents	3,33	,516	6	6,000
	Task&Needs - Poster	2,83	1,169	6	6,000
	Task&Needs - Reviews	2,50	1,225	6	6,000
	Task&Needs - Books	2,33	1,033	6	6,000
	Task&Needs - Citations	1,67	1,506	6	6,000
	Task&Needs - Scientific Terms	,33	,516	6	6,000
	Task&Needs - Synonyms	1,50	1,049	6	6,000
	Task&Needs - Methods	3,50	,548	6	6,000

### Gruppenstatistik

Cluster-Nr. des Falls		Mittelwert	Standardabweichung	Gültige Werte (listenweise)	
				Ungewichtet	Gewichtet
Gesamt	Task&Needs - Chemical Reactions	1,59	1,449	56	56,000
	Task&Needs - Sequences	2,98	1,355	56	56,000
	Task&Needs - Substances	2,84	1,172	56	56,000
	Task&Needs - Structures	2,61	1,303	56	56,000
	Task&Needs - Facts	2,86	1,119	56	56,000
	Task&Needs - Literature	3,61	,593	56	56,000
	Task&Needs - Full Text	3,57	,599	56	56,000
	Task&Needs - Abstracts	3,55	,685	56	56,000
	Task&Needs - Patents	3,32	,993	56	56,000
	Task&Needs - Poster	2,91	,880	56	56,000
	Task&Needs - Reviews	3,43	,806	56	56,000
	Task&Needs - Books	2,45	,893	56	56,000
	Task&Needs - Citations	1,86	1,135	56	56,000
	Task&Needs - Scientific Terms	2,16	1,187	56	56,000
	Task&Needs - Synonyms	2,32	1,097	56	56,000
	Task&Needs - Methods	3,02	,944	56	56,000

### Gleichheitstest der Gruppenmittelwerte

	Wilks-Lambda	F	df1	df2	Signifikanz
Task&Needs - Chemical Reactions	,378	20,969	4	51	,000
Task&Needs - Sequences	,422	17,453	4	51	,000
Task&Needs - Substances	,520	11,765	4	51	,000
Task&Needs - Structures	,430	16,933	4	51	,000
Task&Needs - Facts	,806	3,068	4	51	,024
Task&Needs - Literature	,555	10,236	4	51	,000
Task&Needs - Full Text	,877	1,783	4	51	,147
Task&Needs - Abstracts	,924	1,045	4	51	,393
Task&Needs - Patents	,810	2,989	4	51	,027
Task&Needs - Poster	,988	,152	4	51	,961
Task&Needs - Reviews	,793	3,329	4	51	,017
Task&Needs - Books	,952	,637	4	51	,638
Task&Needs - Citations	,852	2,216	4	51	,080
Task&Needs - Scientific Terms	,466	14,612	4	51	,000
Task&Needs - Synonyms	,772	3,767	4	51	,009
Task&Needs - Methods	,701	5,431	4	51	,001



**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances	Task&Needs - Structures
Kovarianz	Task&Needs - Chemical Reactions	,857	-,171	,193	,297
	Task&Needs - Sequences	-,171	,836	-,088	,038
	Task&Needs - Substances	,193	-,088	,770	,173
	Task&Needs - Structures	,297	,038	,173	,786
	Task&Needs - Facts	,071	-,153	,135	,076
	Task&Needs - Literature	-,055	-,032	-,016	-,065
	Task&Needs - Full Text	-,012	-,019	-,026	,090
	Task&Needs - Abstracts	-,014	,175	,047	,012
	Task&Needs - Patents	-,048	,135	-,137	-,245
	Task&Needs - Poster	,157	,014	,162	,151
	Task&Needs - Reviews	,110	-,089	,124	,167
	Task&Needs - Books	,237	-,011	,061	,246
	Task&Needs - Citations	,084	-,164	-,022	-,043
	Task&Needs - Scientific Terms	,025	-,024	-,067	,057
	Task&Needs - Synonyms	-,130	,187	-,171	,052
	Task&Needs - Methods	,031	-,092	-,078	,042
Korrelation	Task&Needs - Chemical Reactions	1,000	-,202	,237	,362
	Task&Needs - Sequences	-,202	1,000	-,110	,047
	Task&Needs - Substances	,237	-,110	1,000	,222
	Task&Needs - Structures	,362	,047	,222	1,000
	Task&Needs - Facts	,074	-,161	,147	,082
	Task&Needs - Literature	-,129	-,075	-,039	-,160
	Task&Needs - Full Text	-,023	-,035	-,050	,175
	Task&Needs - Abstracts	-,022	,280	,079	,020
	Task&Needs - Patents	-,056	,160	-,169	-,298
	Task&Needs - Poster	,186	,017	,203	,188
	Task&Needs - Reviews	,159	-,131	,190	,252
	Task&Needs - Books	,283	-,014	,077	,306
	Task&Needs - Citations	,083	-,165	-,023	-,044
	Task&Needs - Scientific Terms	,032	-,031	-,091	,076
	Task&Needs - Synonyms	-,140	,205	-,195	,059
	Task&Needs - Methods	,040	-,122	-,108	,057

**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Facts	Task&Needs - Literature	Task&Needs - Full Text	Task&Needs - Abstracts
Kovarianz	Task&Needs - Chemical Reactions	,071	-,055	-,012	-,014
	Task&Needs - Sequences	-,153	-,032	-,019	,175
	Task&Needs - Substances	,135	-,016	-,026	,047
	Task&Needs - Structures	,076	-,065	,090	,012
	Task&Needs - Facts	1,088	,062	-,022	,119
	Task&Needs - Literature	,062	,211	,077	,063
	Task&Needs - Full Text	-,022	,077	,339	,031
	Task&Needs - Abstracts	,119	,063	,031	,468
	Task&Needs - Patents	-,166	,008	-,076	,091
	Task&Needs - Poster	-,029	-,023	,003	,180
	Task&Needs - Reviews	,009	,003	,033	,064
	Task&Needs - Books	,226	,033	,039	,090
	Task&Needs - Citations	,046	-,025	-,196	-,192
	Task&Needs - Scientific Terms	-,004	-,086	-,079	-,120
	Task&Needs - Synonyms	-,241	,045	-,101	,024
	Task&Needs - Methods	,132	,017	,134	,076
Korrelation	Task&Needs - Chemical Reactions	,074	-,129	-,023	-,022
	Task&Needs - Sequences	-,161	-,075	-,035	,280
	Task&Needs - Substances	,147	-,039	-,050	,079
	Task&Needs - Structures	,082	-,160	,175	,020
	Task&Needs - Facts	1,000	,130	-,036	,166
	Task&Needs - Literature	,130	1,000	,288	,200
	Task&Needs - Full Text	-,036	,288	1,000	,077
	Task&Needs - Abstracts	,166	,200	,077	1,000
	Task&Needs - Patents	-,171	,020	-,141	,143
	Task&Needs - Poster	-,030	-,054	,006	,290
	Task&Needs - Reviews	,011	,008	,076	,126
	Task&Needs - Books	,240	,080	,075	,145
	Task&Needs - Citations	,040	-,050	-,309	-,258
	Task&Needs - Scientific Terms	-,005	-,223	-,160	-,209
	Task&Needs - Synonyms	-,231	,099	-,173	,035
	Task&Needs - Methods	,154	,045	,279	,135

**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Patents	Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
Kovarianz	Task&Needs - Chemical Reactions	-,048	,157	,110	,237
	Task&Needs - Sequences	,135	,014	-,089	-,011
	Task&Needs - Substances	-,137	,162	,124	,061
	Task&Needs - Structures	-,245	,151	,167	,246
	Task&Needs - Facts	-,166	-,029	,009	,226
	Task&Needs - Literature	,008	-,023	,003	,033
	Task&Needs - Full Text	-,076	,003	,033	,039
	Task&Needs - Abstracts	,091	,180	,064	,090
	Task&Needs - Patents	,861	,041	,039	-,131
	Task&Needs - Poster	,041	,825	,242	-,007
	Task&Needs - Reviews	,039	,242	,555	,262
	Task&Needs - Books	-,131	-,007	,262	,819
	Task&Needs - Citations	,109	,056	,123	,092
	Task&Needs - Scientific Terms	,023	,009	,041	-,026
	Task&Needs - Synonyms	,149	,204	,129	-,041
	Task&Needs - Methods	-,080	-,065	,186	,216
Korrelation	Task&Needs - Chemical Reactions	-,056	,186	,159	,283
	Task&Needs - Sequences	,160	,017	-,131	-,014
	Task&Needs - Substances	-,169	,203	,190	,077
	Task&Needs - Structures	-,298	,188	,252	,306
	Task&Needs - Facts	-,171	-,030	,011	,240
	Task&Needs - Literature	,020	-,054	,008	,080
	Task&Needs - Full Text	-,141	,006	,076	,075
	Task&Needs - Abstracts	,143	,290	,126	,145
	Task&Needs - Patents	1,000	,049	,056	-,157
	Task&Needs - Poster	,049	1,000	,357	-,008
	Task&Needs - Reviews	,056	,357	1,000	,389
	Task&Needs - Books	-,157	-,008	,389	1,000
	Task&Needs - Citations	,108	,057	,151	,093
	Task&Needs - Scientific Terms	,030	,012	,066	-,034
	Task&Needs - Synonyms	,160	,224	,173	-,045
	Task&Needs - Methods	-,106	-,087	,304	,291

**Gemeinsam Matrizen innerhalb der Gruppen<sup>a</sup>**

		Task&Needs - Citations	Task&Needs - Scientific Terms	Task&Needs - Synonyms	Task&Needs - Methods
Kovarianz	Task&Needs - Chemical Reactions	,084	,025	-,130	,031
	Task&Needs - Sequences	-,164	-,024	,187	-,092
	Task&Needs - Substances	-,022	-,067	-,171	-,078
	Task&Needs - Structures	-,043	,057	,052	,042
	Task&Needs - Facts	,046	-,004	-,241	,132
	Task&Needs - Literature	-,025	-,086	,045	,017
	Task&Needs - Full Text	-,196	-,079	-,101	,134
	Task&Needs - Abstracts	-,192	-,120	,024	,076
	Task&Needs - Patents	,109	,023	,149	-,080
	Task&Needs - Poster	,056	,009	,204	-,065
	Task&Needs - Reviews	,123	,041	,129	,186
	Task&Needs - Books	,092	-,026	-,041	,216
	Task&Needs - Citations	1,184	,161	,062	-,010
	Task&Needs - Scientific Terms	,161	,709	,289	-,090
	Task&Needs - Synonyms	,062	,289	1,002	-,022
Task&Needs - Methods	-,010	-,090	-,022	,674	
Korrelation	Task&Needs - Chemical Reactions	,083	,032	-,140	,040
	Task&Needs - Sequences	-,165	-,031	,205	-,122
	Task&Needs - Substances	-,023	-,091	-,195	-,108
	Task&Needs - Structures	-,044	,076	,059	,057
	Task&Needs - Facts	,040	-,005	-,231	,154
	Task&Needs - Literature	-,050	-,223	,099	,045
	Task&Needs - Full Text	-,309	-,160	-,173	,279
	Task&Needs - Abstracts	-,258	-,209	,035	,135
	Task&Needs - Patents	,108	,030	,160	-,106
	Task&Needs - Poster	,057	,012	,224	-,087
	Task&Needs - Reviews	,151	,066	,173	,304
	Task&Needs - Books	,093	-,034	-,045	,291
	Task&Needs - Citations	1,000	,175	,057	-,012
	Task&Needs - Scientific Terms	,175	1,000	,343	-,130
	Task&Needs - Synonyms	,057	,343	1,000	-,026
Task&Needs - Methods	-,012	-,130	-,026	1,000	

a. Die Kovarianzmatrix hat einen Freiheitsgrad von 51.

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances
1	Task&Needs - Chemical Reactions	,835	-,385	-,055
	Task&Needs - Sequences	-,385	1,346	,038
	Task&Needs - Substances	-,055	,038	,071
	Task&Needs - Structures	,044	,000	,066
	Task&Needs - Facts	-,286	,077	,033
	Task&Needs - Literature	-,011	-,038	,060
	Task&Needs - Full Text	-,011	-,038	,060
	Task&Needs - Abstracts	-,264	,423	,104
	Task&Needs - Patents	-,066	,231	,055
	Task&Needs - Poster	,099	-,038	-,005
	Task&Needs - Reviews	,429	-,346	-,049
	Task&Needs - Books	-,066	-,269	,093
	Task&Needs - Citations	,407	-,346	-,159
	Task&Needs - Scientific Terms	-,143	,115	,016
	Task&Needs - Synonyms	-,308	,308	,000
	Task&Needs - Methods	-,022	-,269	,005
2	Task&Needs - Chemical Reactions	1,361	-,292	,500
	Task&Needs - Sequences	-,292	,750	-,125
	Task&Needs - Substances	,500	-,125	1,250
	Task&Needs - Structures	,306	-,208	,750
	Task&Needs - Facts	,889	-,833	1,000
	Task&Needs - Literature	,069	,083	-,125
	Task&Needs - Full Text	-,083	,125	,250
	Task&Needs - Abstracts	,056	,292	,125
	Task&Needs - Patents	,069	,833	-,500
	Task&Needs - Poster	,139	,417	,375
	Task&Needs - Reviews	-,583	,375	,125
	Task&Needs - Books	,222	-,333	,250
	Task&Needs - Citations	,208	,125	,250
	Task&Needs - Scientific Terms	-,042	,000	-,375
	Task&Needs - Synonyms	-,542	,500	-,500
	Task&Needs - Methods	-,514	-,042	-,125

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Cluster-Nr. des Falls		Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances
3	Task&Needs - Chemical Reactions	,608	,020	,044
	Task&Needs - Sequences	,020	,690	-,251
	Task&Needs - Substances	,044	-,251	,842
	Task&Needs - Structures	,272	,152	-,079
	Task&Needs - Facts	-,070	-,009	-,336
	Task&Needs - Literature	-,123	-,029	,064
	Task&Needs - Full Text	-,018	-,099	-,015
	Task&Needs - Abstracts	,085	,129	,061
	Task&Needs - Patents	-,135	-,114	-,094
	Task&Needs - Poster	,158	-,105	,298
	Task&Needs - Reviews	,149	-,211	,152
	Task&Needs - Books	,468	,170	,038
	Task&Needs - Citations	,184	-,178	,070
	Task&Needs - Scientific Terms	,330	-,091	-,067
	Task&Needs - Synonyms	,026	,149	-,228
	Task&Needs - Methods	,234	-,026	-,064
4	Task&Needs - Chemical Reactions	,214	,107	,107
	Task&Needs - Sequences	,107	,268	,411
	Task&Needs - Substances	,107	,411	1,411
	Task&Needs - Structures	,250	,196	,054
	Task&Needs - Facts	-,286	-,071	,357
	Task&Needs - Literature	-,071	-,107	-,250
	Task&Needs - Full Text	,143	-,071	-,357
	Task&Needs - Abstracts	,036	-,054	-,196
	Task&Needs - Patents	,036	-,339	-,196
	Task&Needs - Poster	-,107	-,196	-,196
	Task&Needs - Reviews	-,071	,036	,179
	Task&Needs - Books	,107	,125	-,304
	Task&Needs - Citations	,000	-,143	-,143
	Task&Needs - Scientific Terms	-,357	-,107	,036
	Task&Needs - Synonyms	-,321	-,089	-,518
	Task&Needs - Methods	,179	,161	-,268

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Cluster-Nr. des Falls		Task&Needs - Chemical Reactions	Task&Needs - Sequences	Task&Needs - Substances
5	Task&Needs - Chemical Reactions	1,900	-,500	1,000
	Task&Needs - Sequences	-,500	,967	-,467
	Task&Needs - Substances	1,000	-,467	,667
	Task&Needs - Structures	1,100	-,100	,600
	Task&Needs - Facts	,700	-,300	,400
	Task&Needs - Literature	-,100	-,100	,000
	Task&Needs - Full Text	-,100	,167	-,267
	Task&Needs - Abstracts	,100	-,167	,067
	Task&Needs - Patents	,000	,333	-,133
	Task&Needs - Poster	,700	,233	,267
	Task&Needs - Reviews	,500	,100	,400
	Task&Needs - Books	,400	,333	,267
	Task&Needs - Citations	-1,200	-,133	-,267
	Task&Needs - Scientific Terms	,000	-,067	,067
	Task&Needs - Synonyms	,700	-,100	,600
	Task&Needs - Methods	,100	-,300	,000
Gesamt	Task&Needs - Chemical Reactions	2,101	,138	1,042
	Task&Needs - Sequences	,138	1,836	,270
	Task&Needs - Substances	1,042	,270	1,374
	Task&Needs - Structures	1,163	,538	,918
	Task&Needs - Facts	,558	,179	,486
	Task&Needs - Literature	-,146	,029	-,046
	Task&Needs - Full Text	,057	,101	,057
	Task&Needs - Abstracts	-,114	,210	-,037
	Task&Needs - Patents	,244	,460	,162
	Task&Needs - Poster	,144	-,074	,131
	Task&Needs - Reviews	-,130	-,010	-,003
	Task&Needs - Books	,041	-,156	-,091
	Task&Needs - Citations	,177	-,094	,158
	Task&Needs - Scientific Terms	,285	,294	,099
	Task&Needs - Synonyms	,171	,497	,107
	Task&Needs - Methods	,117	,419	,057

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Structures	Task&Needs - Facts	Task&Needs - Literature
1	Task&Needs - Chemical Reactions	,044	-,286	-,011
	Task&Needs - Sequences	,000	,077	-,038
	Task&Needs - Substances	,066	,033	,060
	Task&Needs - Structures	,132	-,011	,121
	Task&Needs - Facts	-,011	,725	-,055
	Task&Needs - Literature	,121	-,055	,181
	Task&Needs - Full Text	,121	,022	,104
	Task&Needs - Abstracts	,132	,374	,082
	Task&Needs - Patents	,033	-,022	,011
	Task&Needs - Poster	,066	,418	,137
	Task&Needs - Reviews	,055	,066	,005
	Task&Needs - Books	,187	,209	,126
	Task&Needs - Citations	-,088	,033	-,016
	Task&Needs - Scientific Terms	,033	,055	-,027
	Task&Needs - Synonyms	,000	-,077	,154
	Task&Needs - Methods	-,066	,275	-,137
2	Task&Needs - Chemical Reactions	,306	,889	,069
	Task&Needs - Sequences	-,208	-,833	,083
	Task&Needs - Substances	,750	1,000	-,125
	Task&Needs - Structures	1,278	,444	-,153
	Task&Needs - Facts	,444	1,861	,056
	Task&Needs - Literature	-,153	,056	,278
	Task&Needs - Full Text	,208	,208	,167
	Task&Needs - Abstracts	-,097	-,056	,097
	Task&Needs - Patents	-,903	-,944	,153
	Task&Needs - Poster	,319	-,139	,056
	Task&Needs - Reviews	,083	-,292	,167
	Task&Needs - Books	,111	,653	,139
	Task&Needs - Citations	,667	-,208	-,042
	Task&Needs - Scientific Terms	,292	-,458	-,167
	Task&Needs - Synonyms	-,083	-,958	,083
	Task&Needs - Methods	-,069	,139	,319



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Cluster-Nr. des Falls		Task&Needs - Structures	Task&Needs - Facts	Task&Needs - Literature
3	Task&Needs - Chemical Reactions	,272	-,070	-,123
	Task&Needs - Sequences	,152	-,009	-,029
	Task&Needs - Substances	-,079	-,336	,064
	Task&Needs - Structures	,877	,193	-,023
	Task&Needs - Facts	,193	1,094	,219
	Task&Needs - Literature	-,023	,219	,175
	Task&Needs - Full Text	,132	,135	,041
	Task&Needs - Abstracts	-,053	,091	,061
	Task&Needs - Patents	-,380	-,061	-,038
	Task&Needs - Poster	-,129	-,322	-,091
	Task&Needs - Reviews	,020	,079	,041
	Task&Needs - Books	,213	,284	-,018
	Task&Needs - Citations	-,076	,088	-,041
	Task&Needs - Scientific Terms	,105	-,070	-,123
	Task&Needs - Synonyms	-,058	-,257	-,061
Task&Needs - Methods	,079	,170	,047	
4	Task&Needs - Chemical Reactions	,250	-,286	-,071
	Task&Needs - Sequences	,196	-,071	-,107
	Task&Needs - Substances	,054	,357	-,250
	Task&Needs - Structures	,696	-,786	-,107
	Task&Needs - Facts	-,786	1,429	,000
	Task&Needs - Literature	-,107	,000	,214
	Task&Needs - Full Text	,214	-,714	,000
	Task&Needs - Abstracts	,018	-,071	,107
	Task&Needs - Patents	,018	,071	,107
	Task&Needs - Poster	,018	-,214	,107
	Task&Needs - Reviews	,036	-,143	,071
	Task&Needs - Books	,054	-,357	,179
	Task&Needs - Citations	-,429	,571	-,143
	Task&Needs - Scientific Terms	-,393	,571	-,071
	Task&Needs - Synonyms	,125	-,071	,179
Task&Needs - Methods	,232	-,214	-,036	

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Cluster-Nr. des Falls		Task&Needs - Structures	Task&Needs - Facts	Task&Needs - Literature
5	Task&Needs - Chemical Reactions	1,100	,700	-,100
	Task&Needs - Sequences	-,100	-,300	-,100
	Task&Needs - Substances	,600	,400	,000
	Task&Needs - Structures	1,500	,500	-,500
	Task&Needs - Facts	,500	,300	-,100
	Task&Needs - Literature	-,500	-,100	,300
	Task&Needs - Full Text	-,500	-,100	,100
	Task&Needs - Abstracts	,100	,100	-,100
	Task&Needs - Patents	,200	,000	-,200
	Task&Needs - Poster	1,300	,300	-,500
	Task&Needs - Reviews	1,300	,300	-,500
	Task&Needs - Books	1,000	,200	-,400
	Task&Needs - Citations	-,400	-,400	,200
	Task&Needs - Scientific Terms	,200	,000	,000
	Task&Needs - Synonyms	,700	,300	-,100
	Task&Needs - Methods	,100	,100	-,100
Gesamt	Task&Needs - Chemical Reactions	1,163	,558	-,146
	Task&Needs - Sequences	,538	,179	,029
	Task&Needs - Substances	,918	,486	-,046
	Task&Needs - Structures	1,697	,452	,006
	Task&Needs - Facts	,452	1,252	-,003
	Task&Needs - Literature	,006	-,003	,352
	Task&Needs - Full Text	,229	,010	,138
	Task&Needs - Abstracts	-,106	,099	,021
	Task&Needs - Patents	,165	,010	,038
	Task&Needs - Poster	,110	-,049	-,018
	Task&Needs - Reviews	,117	-,083	,135
	Task&Needs - Books	,051	,119	,033
	Task&Needs - Citations	,252	,088	,016
	Task&Needs - Scientific Terms	,355	,060	,192
	Task&Needs - Synonyms	,456	-,099	,183
	Task&Needs - Methods	,207	,275	-,011

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Cluster-Nr. des Falls		Task&Needs - Full Text	Task&Needs - Abstracts	Task&Needs - Patents
1	Task&Needs - Chemical Reactions	-,011	-,264	-,066
	Task&Needs - Sequences	-,038	,423	,231
	Task&Needs - Substances	,060	,104	,055
	Task&Needs - Structures	,121	,132	,033
	Task&Needs - Facts	,022	,374	-,022
	Task&Needs - Literature	,104	,082	,011
	Task&Needs - Full Text	,181	,082	,011
	Task&Needs - Abstracts	,082	,709	,264
	Task&Needs - Patents	,011	,264	,374
	Task&Needs - Poster	,060	,181	-,176
	Task&Needs - Reviews	,082	,016	,110
	Task&Needs - Books	,280	,225	,220
	Task&Needs - Citations	-,093	-,126	-,022
	Task&Needs - Scientific Terms	,126	-,005	-,088
	Task&Needs - Synonyms	,077	,000	-,077
	Task&Needs - Methods	-,060	,049	,099
2	Task&Needs - Chemical Reactions	-,083	,056	,069
	Task&Needs - Sequences	,125	,292	,833
	Task&Needs - Substances	,250	,125	-,500
	Task&Needs - Structures	,208	-,097	-,903
	Task&Needs - Facts	,208	-,056	-,944
	Task&Needs - Literature	,167	,097	,153
	Task&Needs - Full Text	,500	,083	-,333
	Task&Needs - Abstracts	,083	,278	,472
	Task&Needs - Patents	-,333	,472	2,278
	Task&Needs - Poster	,083	,319	,556
	Task&Needs - Reviews	,375	,083	,042
	Task&Needs - Books	,208	-,139	-,611
	Task&Needs - Citations	-,250	,042	,458
	Task&Needs - Scientific Terms	-,250	,042	,208
	Task&Needs - Synonyms	-,125	,167	1,083
	Task&Needs - Methods	,417	-,069	-,181

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Cluster-Nr. des Falls		Task&Needs - Full Text	Task&Needs - Abstracts	Task&Needs - Patents
3	Task&Needs - Chemical Reactions	-,018	,085	-,135
	Task&Needs - Sequences	-,099	,129	-,114
	Task&Needs - Substances	-,015	,061	-,094
	Task&Needs - Structures	,132	-,053	-,380
	Task&Needs - Facts	,135	,091	-,061
	Task&Needs - Literature	,041	,061	-,038
	Task&Needs - Full Text	,228	-,047	-,029
	Task&Needs - Abstracts	-,047	,596	-,155
	Task&Needs - Patents	-,029	-,155	,368
	Task&Needs - Poster	-,053	,199	-,015
	Task&Needs - Reviews	,061	,120	-,029
	Task&Needs - Books	-,137	,099	-,202
	Task&Needs - Citations	-,117	-,342	,029
	Task&Needs - Scientific Terms	-,018	-,249	,143
	Task&Needs - Synonyms	-,064	-,041	,044
Task&Needs - Methods	,181	,161	-,129	
4	Task&Needs - Chemical Reactions	,143	,036	,036
	Task&Needs - Sequences	-,071	-,054	-,339
	Task&Needs - Substances	-,357	-,196	-,196
	Task&Needs - Structures	,214	,018	,018
	Task&Needs - Facts	-,714	-,071	,071
	Task&Needs - Literature	,000	,107	,107
	Task&Needs - Full Text	,571	,071	-,214
	Task&Needs - Abstracts	,071	,125	-,018
	Task&Needs - Patents	-,214	-,018	1,839
	Task&Needs - Poster	,214	,125	-,161
	Task&Needs - Reviews	,000	-,036	-,036
	Task&Needs - Books	,214	,089	-,339
	Task&Needs - Citations	-,143	-,143	,571
	Task&Needs - Scientific Terms	-,286	-,179	-,179
	Task&Needs - Synonyms	-,214	,018	-,125
Task&Needs - Methods	,071	,054	-,232	

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Cluster-Nr. des Falls		Task&Needs - Full Text	Task&Needs - Abstracts	Task&Needs - Patents
5	Task&Needs - Chemical Reactions	-,100	,100	,000
	Task&Needs - Sequences	,167	-,167	,333
	Task&Needs - Substances	-,267	,067	-,133
	Task&Needs - Structures	-,500	,100	,200
	Task&Needs - Facts	-,100	,100	,000
	Task&Needs - Literature	,100	-,100	-,200
	Task&Needs - Full Text	,567	,033	,133
	Task&Needs - Abstracts	,033	,167	,067
	Task&Needs - Patents	,133	,067	,267
	Task&Needs - Poster	-,367	-,033	,267
	Task&Needs - Reviews	-,700	,100	,200
	Task&Needs - Books	-,467	,067	,267
	Task&Needs - Citations	-,733	-,267	-,467
	Task&Needs - Scientific Terms	-,267	-,133	-,133
	Task&Needs - Synonyms	-,500	,100	,000
	Task&Needs - Methods	,100	,100	,000
Gesamt	Task&Needs - Chemical Reactions	,057	-,114	,244
	Task&Needs - Sequences	,101	,210	,460
	Task&Needs - Substances	,057	-,037	,162
	Task&Needs - Structures	,229	-,106	,165
	Task&Needs - Facts	,010	,099	,010
	Task&Needs - Literature	,138	,021	,038
	Task&Needs - Full Text	,358	,005	-,005
	Task&Needs - Abstracts	,005	,470	,055
	Task&Needs - Patents	-,005	,055	,986
	Task&Needs - Poster	-,003	,159	,011
	Task&Needs - Reviews	,078	,049	,042
	Task&Needs - Books	,013	,094	-,201
	Task&Needs - Citations	-,135	-,229	,229
	Task&Needs - Scientific Terms	,070	-,181	,129
	Task&Needs - Synonyms	,013	-,036	,313
	Task&Needs - Methods	,153	,117	,067

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Cluster-Nr. des Falls		Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
1	Task&Needs - Chemical Reactions	,099	,429	-,066
	Task&Needs - Sequences	-,038	-,346	-,269
	Task&Needs - Substances	-,005	-,049	,093
	Task&Needs - Structures	,066	,055	,187
	Task&Needs - Facts	,418	,066	,209
	Task&Needs - Literature	,137	,005	,126
	Task&Needs - Full Text	,060	,082	,280
	Task&Needs - Abstracts	,181	,016	,225
	Task&Needs - Patents	-,176	,110	,220
	Task&Needs - Poster	,995	,181	-,060
	Task&Needs - Reviews	,181	,709	,456
	Task&Needs - Books	-,060	,456	,951
	Task&Needs - Citations	,379	,489	,093
	Task&Needs - Scientific Terms	-,060	,071	,181
	Task&Needs - Synonyms	,231	-,077	-,077
	Task&Needs - Methods	-,071	,280	,291
2	Task&Needs - Chemical Reactions	,139	-,583	,222
	Task&Needs - Sequences	,417	,375	-,333
	Task&Needs - Substances	,375	,125	,250
	Task&Needs - Structures	,319	,083	,111
	Task&Needs - Facts	-,139	-,292	,653
	Task&Needs - Literature	,056	,167	,139
	Task&Needs - Full Text	,083	,375	,208
	Task&Needs - Abstracts	,319	,083	-,139
	Task&Needs - Patents	,556	,042	-,611
	Task&Needs - Poster	,611	,208	-,222
	Task&Needs - Reviews	,208	,750	,083
	Task&Needs - Books	-,222	,083	,444
	Task&Needs - Citations	,542	,125	-,208
	Task&Needs - Scientific Terms	,167	-,375	-,458
	Task&Needs - Synonyms	,417	,375	-,458
	Task&Needs - Methods	-,111	,667	,347

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Cluster-Nr. des Falls		Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
3	Task&Needs - Chemical Reactions	,158	,149	,468
	Task&Needs - Sequences	-,105	-,211	,170
	Task&Needs - Substances	,298	,152	,038
	Task&Needs - Structures	-,129	,020	,213
	Task&Needs - Facts	-,322	,079	,284
	Task&Needs - Literature	-,091	,041	-,018
	Task&Needs - Full Text	-,053	,061	-,137
	Task&Needs - Abstracts	,199	,120	,099
	Task&Needs - Patents	-,015	-,029	-,202
	Task&Needs - Poster	,696	,114	,015
	Task&Needs - Reviews	,114	,228	,029
	Task&Needs - Books	,015	,029	,813
	Task&Needs - Citations	-,058	-,006	,304
	Task&Needs - Scientific Terms	-,120	,149	,135
	Task&Needs - Synonyms	,023	-,064	-,044
	Task&Needs - Methods	,035	,126	,129
4	Task&Needs - Chemical Reactions	-,107	-,071	,107
	Task&Needs - Sequences	-,196	,036	,125
	Task&Needs - Substances	-,196	,179	-,304
	Task&Needs - Structures	,018	,036	,054
	Task&Needs - Facts	-,214	-,143	-,357
	Task&Needs - Literature	,107	,071	,179
	Task&Needs - Full Text	,214	,000	,214
	Task&Needs - Abstracts	,125	-,036	,089
	Task&Needs - Patents	-,161	-,036	-,339
	Task&Needs - Poster	,696	,107	-,339
	Task&Needs - Reviews	,107	,214	,036
	Task&Needs - Books	-,339	,036	,839
	Task&Needs - Citations	-,571	-,286	,000
	Task&Needs - Scientific Terms	,107	,071	-,393
	Task&Needs - Synonyms	,304	,179	-,089
	Task&Needs - Methods	-,375	-,179	,446

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Cluster-Nr. des Falls		Task&Needs - Poster	Task&Needs - Reviews	Task&Needs - Books
5	Task&Needs - Chemical Reactions	,700	,500	,400
	Task&Needs - Sequences	,233	,100	,333
	Task&Needs - Substances	,267	,400	,267
	Task&Needs - Structures	1,300	1,300	1,000
	Task&Needs - Facts	,300	,300	,200
	Task&Needs - Literature	-,500	-,500	-,400
	Task&Needs - Full Text	-,367	-,700	-,467
	Task&Needs - Abstracts	-,033	,100	,067
	Task&Needs - Patents	,267	,200	,267
	Task&Needs - Poster	1,367	1,100	,867
	Task&Needs - Reviews	1,100	1,500	1,200
	Task&Needs - Books	,867	1,200	1,067
	Task&Needs - Citations	-,267	,200	-,067
	Task&Needs - Scientific Terms	,267	,200	,067
	Task&Needs - Synonyms	,300	,900	,800
	Task&Needs - Methods	,100	-,100	-,200
	Gesamt	Task&Needs - Chemical Reactions	,144	-,130
Task&Needs - Sequences		-,074	-,010	-,156
Task&Needs - Substances		,131	-,003	-,091
Task&Needs - Structures		,110	,117	,051
Task&Needs - Facts		-,049	-,083	,119
Task&Needs - Literature		-,018	,135	,033
Task&Needs - Full Text		-,003	,078	,013
Task&Needs - Abstracts		,159	,049	,094
Task&Needs - Patents		,011	,042	-,201
Task&Needs - Poster		,774	,221	,004
Task&Needs - Reviews		,221	,649	,260
Task&Needs - Books		,004	,260	,797
Task&Needs - Citations		,042	,135	,047
Task&Needs - Scientific Terms		,015	,221	-,073
Task&Needs - Synonyms		,175	,205	-,110
Task&Needs - Methods		-,107	,174	,137



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Cluster-Nr. des Falls		Task&Needs - Citations	Task&Needs - Scientific Terms
1	Task&Needs - Chemical Reactions	,407	-,143
	Task&Needs - Sequences	-,346	,115
	Task&Needs - Substances	-,159	,016
	Task&Needs - Structures	-,088	,033
	Task&Needs - Facts	,033	,055
	Task&Needs - Literature	-,016	-,027
	Task&Needs - Full Text	-,093	,126
	Task&Needs - Abstracts	-,126	-,005
	Task&Needs - Patents	-,022	-,088
	Task&Needs - Poster	,379	-,060
	Task&Needs - Reviews	,489	,071
	Task&Needs - Books	,093	,181
	Task&Needs - Citations	,995	-,291
	Task&Needs - Scientific Terms	-,291	,643
	Task&Needs - Synonyms	,000	,462
Task&Needs - Methods	,082	,060	
2	Task&Needs - Chemical Reactions	,208	-,042
	Task&Needs - Sequences	,125	,000
	Task&Needs - Substances	,250	-,375
	Task&Needs - Structures	,667	,292
	Task&Needs - Facts	-,208	-,458
	Task&Needs - Literature	-,042	-,167
	Task&Needs - Full Text	-,250	-,250
	Task&Needs - Abstracts	,042	,042
	Task&Needs - Patents	,458	,208
	Task&Needs - Poster	,542	,167
	Task&Needs - Reviews	,125	-,375
	Task&Needs - Books	-,208	-,458
	Task&Needs - Citations	1,250	,375
	Task&Needs - Scientific Terms	,375	1,000
	Task&Needs - Synonyms	,750	,500
Task&Needs - Methods	-,042	-,417	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Citations	Task&Needs - Scientific Terms
3	Task&Needs - Chemical Reactions	,184	,330
	Task&Needs - Sequences	-,178	-,091
	Task&Needs - Substances	,070	-,067
	Task&Needs - Structures	-,076	,105
	Task&Needs - Facts	,088	-,070
	Task&Needs - Literature	-,041	-,123
	Task&Needs - Full Text	-,117	-,018
	Task&Needs - Abstracts	-,342	-,249
	Task&Needs - Patents	,029	,143
	Task&Needs - Poster	-,058	-,120
	Task&Needs - Reviews	-,006	,149
	Task&Needs - Books	,304	,135
	Task&Needs - Citations	1,006	,295
	Task&Needs - Scientific Terms	,295	,719
	Task&Needs - Synonyms	,064	,082
Task&Needs - Methods	-,070	,012	
4	Task&Needs - Chemical Reactions	,000	-,357
	Task&Needs - Sequences	-,143	-,107
	Task&Needs - Substances	-,143	,036
	Task&Needs - Structures	-,429	-,393
	Task&Needs - Facts	,571	,571
	Task&Needs - Literature	-,143	-,071
	Task&Needs - Full Text	-,143	-,286
	Task&Needs - Abstracts	-,143	-,179
	Task&Needs - Patents	,571	-,179
	Task&Needs - Poster	-,571	,107
	Task&Needs - Reviews	-,286	,071
	Task&Needs - Books	,000	-,393
	Task&Needs - Citations	1,143	,143
	Task&Needs - Scientific Terms	,143	,786
	Task&Needs - Synonyms	-,571	,464
Task&Needs - Methods	,143	-,321	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Citations	Task&Needs - Scientific Terms
5	Task&Needs - Chemical Reactions	-1,200	,000
	Task&Needs - Sequences	-,133	-,067
	Task&Needs - Substances	-,267	,067
	Task&Needs - Structures	-,400	,200
	Task&Needs - Facts	-,400	,000
	Task&Needs - Literature	,200	,000
	Task&Needs - Full Text	-,733	-,267
	Task&Needs - Abstracts	-,267	-,133
	Task&Needs - Patents	-,467	-,133
	Task&Needs - Poster	-,267	,267
	Task&Needs - Reviews	,200	,200
	Task&Needs - Books	-,067	,067
	Task&Needs - Citations	2,267	,533
	Task&Needs - Scientific Terms	,533	,267
	Task&Needs - Synonyms	,000	,000
Task&Needs - Methods	-,200	,000	
Gesamt	Task&Needs - Chemical Reactions	,177	,285
	Task&Needs - Sequences	-,094	,294
	Task&Needs - Substances	,158	,099
	Task&Needs - Structures	,252	,355
	Task&Needs - Facts	,088	,060
	Task&Needs - Literature	,016	,192
	Task&Needs - Full Text	-,135	,070
	Task&Needs - Abstracts	-,229	-,181
	Task&Needs - Patents	,229	,129
	Task&Needs - Poster	,042	,015
	Task&Needs - Reviews	,135	,221
	Task&Needs - Books	,047	-,073
	Task&Needs - Citations	1,288	,114
	Task&Needs - Scientific Terms	,114	1,410
	Task&Needs - Synonyms	,156	,638
Task&Needs - Methods	,003	-,057	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Synonyms	Task&Needs - Methods
1	Task&Needs - Chemical Reactions	-,308	-,022
	Task&Needs - Sequences	,308	-,269
	Task&Needs - Substances	,000	,005
	Task&Needs - Structures	,000	-,066
	Task&Needs - Facts	-,077	,275
	Task&Needs - Literature	,154	-,137
	Task&Needs - Full Text	,077	-,060
	Task&Needs - Abstracts	,000	,049
	Task&Needs - Patents	-,077	,099
	Task&Needs - Poster	,231	-,071
	Task&Needs - Reviews	-,077	,280
	Task&Needs - Books	-,077	,291
	Task&Needs - Citations	,000	,082
	Task&Needs - Scientific Terms	,462	,060
	Task&Needs - Synonyms	1,077	-,231
Task&Needs - Methods	-,231	,533	
2	Task&Needs - Chemical Reactions	-,542	-,514
	Task&Needs - Sequences	,500	-,042
	Task&Needs - Substances	-,500	-,125
	Task&Needs - Structures	-,083	-,069
	Task&Needs - Facts	-,958	,139
	Task&Needs - Literature	,083	,319
	Task&Needs - Full Text	-,125	,417
	Task&Needs - Abstracts	,167	-,069
	Task&Needs - Patents	1,083	-,181
	Task&Needs - Poster	,417	-,111
	Task&Needs - Reviews	,375	,667
	Task&Needs - Books	-,458	,347
	Task&Needs - Citations	,750	-,042
	Task&Needs - Scientific Terms	,500	-,417
	Task&Needs - Synonyms	1,250	,333
Task&Needs - Methods	,333	1,111	

Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Synonyms	Task&Needs - Methods
3	Task&Needs - Chemical Reactions	,026	,234
	Task&Needs - Sequences	,149	-,026
	Task&Needs - Substances	-,228	-,064
	Task&Needs - Structures	-,058	,079
	Task&Needs - Facts	-,257	,170
	Task&Needs - Literature	-,061	,047
	Task&Needs - Full Text	-,064	,181
	Task&Needs - Abstracts	-,041	,161
	Task&Needs - Patents	,044	-,129
	Task&Needs - Poster	,023	,035
	Task&Needs - Reviews	-,064	,126
	Task&Needs - Books	-,044	,129
	Task&Needs - Citations	,064	-,070
	Task&Needs - Scientific Terms	,082	,012
	Task&Needs - Synonyms	,708	,061
Task&Needs - Methods	,061	,731	
4	Task&Needs - Chemical Reactions	-,321	,179
	Task&Needs - Sequences	-,089	,161
	Task&Needs - Substances	-,518	-,268
	Task&Needs - Structures	,125	,232
	Task&Needs - Facts	-,071	-,214
	Task&Needs - Literature	,179	-,036
	Task&Needs - Full Text	-,214	,071
	Task&Needs - Abstracts	,018	,054
	Task&Needs - Patents	-,125	-,232
	Task&Needs - Poster	,304	-,375
	Task&Needs - Reviews	,179	-,179
	Task&Needs - Books	-,089	,446
	Task&Needs - Citations	-,571	,143
	Task&Needs - Scientific Terms	,464	-,321
	Task&Needs - Synonyms	1,268	-,054
Task&Needs - Methods	-,054	,554	

### Kovarianz-Matrizen<sup>a</sup>

Cluster-Nr. des Falls		Task&Needs - Synonyms	Task&Needs - Methods
5	Task&Needs - Chemical Reactions	,700	,100
	Task&Needs - Sequences	-,100	-,300
	Task&Needs - Substances	,600	,000
	Task&Needs - Structures	,700	,100
	Task&Needs - Facts	,300	,100
	Task&Needs - Literature	-,100	-,100
	Task&Needs - Full Text	-,500	,100
	Task&Needs - Abstracts	,100	,100
	Task&Needs - Patents	,000	,000
	Task&Needs - Poster	,300	,100
	Task&Needs - Reviews	,900	-,100
	Task&Needs - Books	,800	-,200
	Task&Needs - Citations	,000	-,200
	Task&Needs - Scientific Terms	,000	,000
	Task&Needs - Synonyms	1,100	-,300
	Task&Needs - Methods	-,300	,300
Gesamt	Task&Needs - Chemical Reactions	,171	,117
	Task&Needs - Sequences	,497	,419
	Task&Needs - Substances	,107	,057
	Task&Needs - Structures	,456	,207
	Task&Needs - Facts	-,099	,275
	Task&Needs - Literature	,183	-,011
	Task&Needs - Full Text	,013	,153
	Task&Needs - Abstracts	-,036	,117
	Task&Needs - Patents	,313	,067
	Task&Needs - Poster	,175	-,107
	Task&Needs - Reviews	,205	,174
	Task&Needs - Books	-,110	,137
	Task&Needs - Citations	,156	,003
	Task&Needs - Scientific Terms	,638	-,057
	Task&Needs - Synonyms	1,204	,067
	Task&Needs - Methods	,067	,891

a. Die Kovarianzmatrix für alle Fälle hat einen Freiheitsgrad von 55.

## Analyse 1

### Box-Test auf Gleichheit der Kovarianz-Matrizen

### Log-Determinanten

Cluster-Nr. des Falls	Rang	Log-Determinante
1	. <sup>a</sup>	. <sup>b</sup>
2	. <sup>c</sup>	. <sup>b</sup>
3	16	-20,523
4	. <sup>d</sup>	. <sup>b</sup>
5	. <sup>e</sup>	. <sup>b</sup>
Gemeinsam innerhalb der Gruppen	16	-9,033

Die Ränge und natürlichen Logarithmen der ausgegebenen Determinanten sind die der Gruppen-Kovarianz-Matrizen.

- a. Rang < 14
- b. Zu wenig Fälle für Nicht-Singularität
- c. Rang < 9
- d. Rang < 8
- e. Rang < 6

### Textergebnisse<sup>a</sup>

Testet die Null-Hypothese der Kovarianz-Matrizen gleicher Grundgesamtheit.

- a. Mit weniger als zwei nicht-singulären Gruppen-Kovarianz-Matrizen kann kein Test durchgeführt werden.

## Zusammenfassung der kanonischen Diskriminanzfunktionen

### Eigenwerte

Funktion	Eigenwert	% der Varianz	Kumulierte %	Kanonische Korrelation
1	6,563 <sup>a</sup>	56,2	56,2	,932
2	2,828 <sup>a</sup>	24,2	80,4	,860
3	1,390 <sup>a</sup>	11,9	92,3	,763
4	,901 <sup>a</sup>	7,7	100,0	,689

- a. Die ersten 4 kanonischen Diskriminanzfunktionen werden in dieser Analyse verwendet.

### Wilks' Lambda

Test der Funktion(en)	Wilks-Lambda	Chi-Quadrat	df	Signifikanz
1 bis 4	,008	217,137	64	,000
2 bis 4	,057	127,101	45	,000
3 bis 4	,220	67,362	28	,000
4	,526	28,596	13	,007

### Standardisierte kanonische Diskriminanzfunktionskoeffizienten

	Funktion			
	1	2	3	4
Task&Needs - Chemical Reactions	,449	-,258	,253	-,689
Task&Needs - Sequences	,550	,333	-,723	-,153
Task&Needs - Substances	,456	-,185	,096	,059
Task&Needs - Structures	,385	,021	,242	,723
Task&Needs - Facts	,274	-,221	-,127	-,106
Task&Needs - Literature	,238	,800	,242	,167
Task&Needs - Full Text	,138	-,174	,159	,063
Task&Needs - Abstracts	-,239	-,152	,070	-,090
Task&Needs - Patents	,345	-,117	,084	,327
Task&Needs - Poster	-,171	,114	-,087	-,099
Task&Needs - Reviews	-,164	,452	-,137	,094
Task&Needs - Books	-,412	-,059	,081	-,043
Task&Needs - Citations	,129	-,168	-,007	,495
Task&Needs - Scientific Terms	,190	,778	,196	-,472
Task&Needs - Synonyms	,196	-,477	,212	,018
Task&Needs - Methods	,388	,072	-,546	-,079

### Struktur-Matrix

	Funktion			
	1	2	3	4
Task&Needs - Structures	,419*	-,083	,246	,287
Task&Needs - Substances	,337*	-,203	,207	,016
Task&Needs - Patents	,176*	-,007	-,048	,173
Task&Needs - Synonyms	,176*	,163	,099	,058
Task&Needs - Facts	,169*	-,116	-,048	-,116
Task&Needs - Books	-,085*	,025	,014	-,006
Task&Needs - Scientific Terms	,199	,487*	,275	-,348
Task&Needs - Literature	,056	,484*	,230	,224
Task&Needs - Reviews	-,013	,285*	-,014	,181
Task&Needs - Full Text	,104	,137*	,061	,108
Task&Needs - Sequences	,338	,168	-,623*	-,025
Task&Needs - Methods	,149	,010	-,449*	-,010
Task&Needs - Abstracts	-,042	-,018	-,210*	-,093
Task&Needs - Poster	-,022	-,001	,076*	-,030
Task&Needs - Chemical Reactions	,388	-,311	,398	-,424*
Task&Needs - Citations	,070	-,032	,079	,379*

Gemeinsame Korrelationen innerhalb der Gruppen zwischen Diskriminanzvariablen und standardisierten kanonischen Diskriminanzfunktionen

Variablen sind nach ihrer absoluten Korrelationsgröße innerhalb der Funktion geordnet.

\*. Größte absolute Korrelation zwischen jeder Variablen und einer Diskriminanzfunktion



### Kanonische Diskriminanzfunktionskoeffizienten

	Funktion			
	1	2	3	4
Task&Needs - Chemical Reactions	,485	-,279	,273	-,744
Task&Needs - Sequences	,601	,365	-,791	-,168
Task&Needs - Substances	,520	-,211	,110	,067
Task&Needs - Structures	,434	,023	,273	,816
Task&Needs - Facts	,263	-,212	-,121	-,102
Task&Needs - Literature	,518	1,744	,528	,365
Task&Needs - Full Text	,237	-,298	,274	,108
Task&Needs - Abstracts	-,350	-,222	,102	-,131
Task&Needs - Patents	,371	-,126	,091	,352
Task&Needs - Poster	-,189	,125	-,096	-,109
Task&Needs - Reviews	-,220	,606	-,184	,126
Task&Needs - Books	-,455	-,065	,090	-,048
Task&Needs - Citations	,119	-,154	-,007	,455
Task&Needs - Scientific Terms	,226	,924	,233	-,561
Task&Needs - Synonyms	,196	-,476	,212	,018
Task&Needs - Methods	,473	,087	-,666	-,096
(Konstant)	-8,799	-6,668	-,581	-2,133

Nicht-standardisierte Koeffizienten

### Funktionen bei den Gruppen-Zentroiden

Cluster-Nr. des Falls	Funktion			
	1	2	3	4
1	3,273	,254	,958	-,613
2	-4,162	-,507	1,675	-,082
3	,310	,445	-,437	1,183
4	-1,836	2,141	-1,498	-1,244
5	,072	-4,095	-1,367	-,534

Nicht-standardisierte kanonische Diskriminanzfunktionen, die bezüglich des Gruppen-Mittelwertes bewertet werden

## Klassifizierungsstatistiken

### Zusammenfassung der Verarbeitung von Klassifizierungen

Verarbeitet		72
Ausgeschlossen	Fehlende oder außerhalb des Bereichs liegende Gruppencodes	0
	Wenigstens eine Diskriminanzvariable fehlt	16
In der Ausgabe verwendet		56

### A-priori-Wahrscheinlichkeiten der Gruppen

Cluster-Nr. des Falls	A-priori	In der Analyse verwendete Fälle	
		Ungewichtet	Gewichtet
1	,200	14	14,000
2	,200	9	9,000
3	,200	19	19,000
4	,200	8	8,000
5	,200	6	6,000
Gesamt	1,000	56	56,000

### Klassifizierungsfunktionskoeffizienten

	Cluster-Nr. des Falls				
	1	2	3	4	5
Task&Needs - Chemical Reactions	3,931	,338	,724	,725	2,896
Task&Needs - Sequences	7,176	1,772	6,266	6,840	5,491
Task&Needs - Substances	6,866	3,274	5,253	3,499	5,869
Task&Needs - Structures	3,689	1,074	3,491	,329	1,628
Task&Needs - Facts	2,367	,433	1,534	,985	2,723
Task&Needs - Literature	20,634	16,029	19,350	19,751	10,193
Task&Needs - Full Text	9,914	8,636	8,968	7,402	9,827
Task&Needs - Abstracts	1,557	4,328	2,173	2,757	3,394
Task&Needs - Patents	5,907	3,493	5,287	3,325	5,085
Task&Needs - Poster	,634	1,816	1,157	2,140	,908
Task&Needs - Reviews	,235	1,345	1,486	2,876	-1,258
Task&Needs - Books	-2,790	,681	-1,665	-,778	-1,263
Task&Needs - Citations	3,360	2,832	3,805	2,193	3,702
Task&Needs - Scientific Terms	8,488	5,976	6,663	8,862	3,161
Task&Needs - Synonyms	,060	-,871	-,873	-2,370	1,013
Task&Needs - Methods	5,581	1,472	4,954	5,026	5,227
(Konstant)	-140,466	-75,681	-113,588	-105,158	-85,546

Lineare Diskriminanzfunktionen nach Fisher



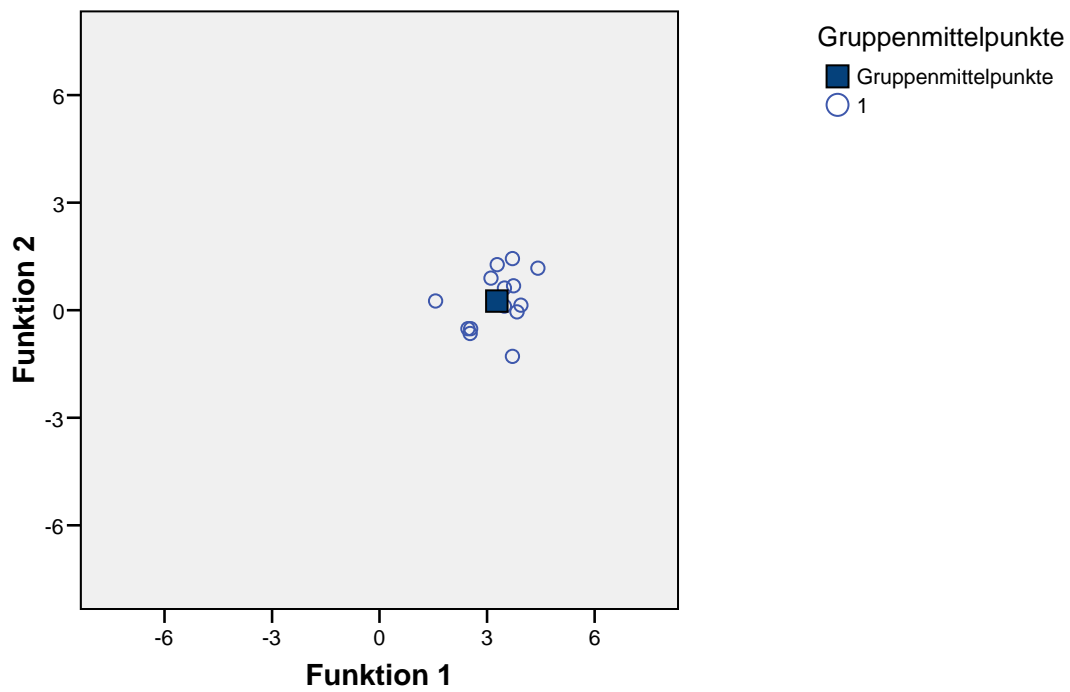
## Symbole für Territorien

Symbol	Grp.	Label
1	1	
2	2	
3	3	
4	4	
5	5	
*		Markiert Gruppenzentroide

## Graphische Darstellung getrennter Gruppen

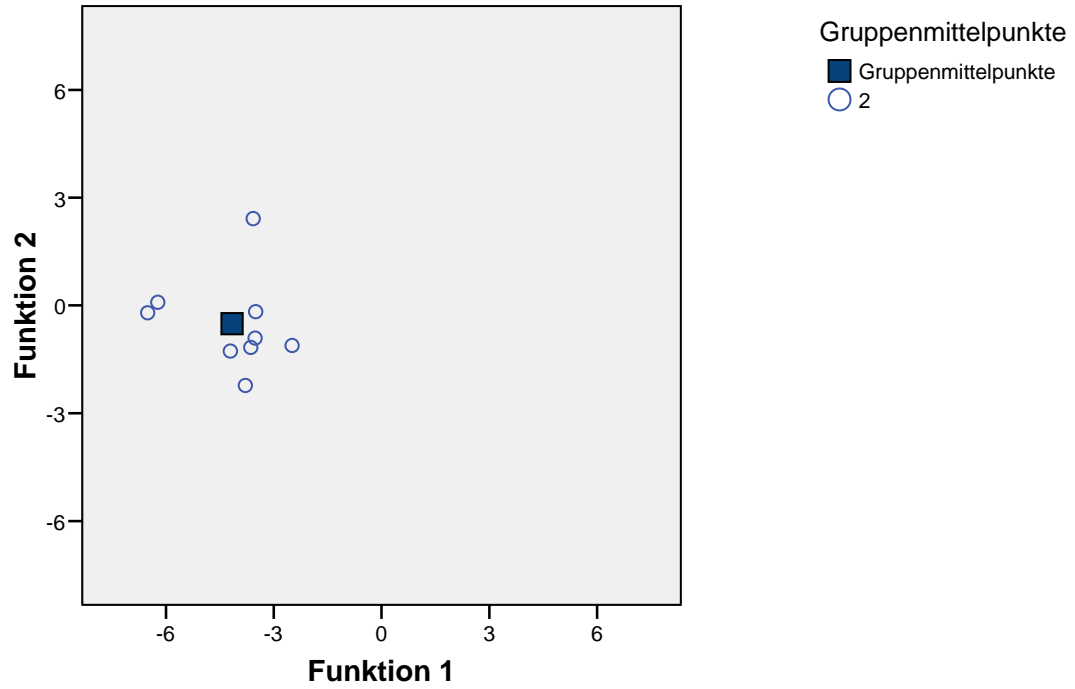
### Kanonische Diskriminanzfunktion

Cluster-Nr. des Falls = 1



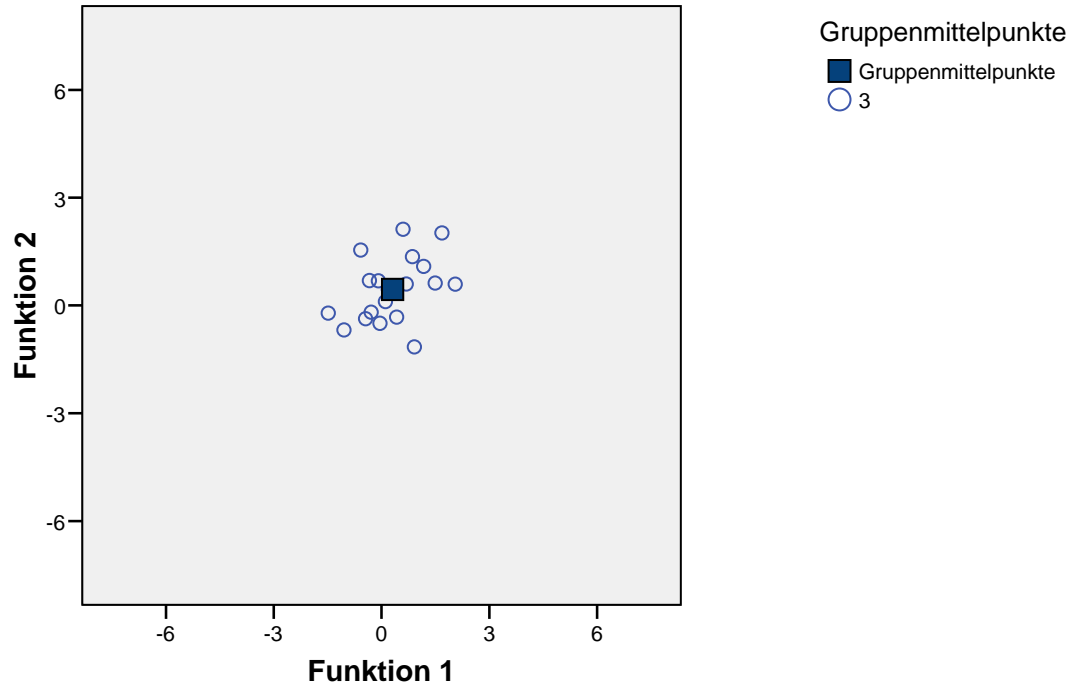
# Kanonische Diskriminanzfunktion

Cluster-Nr. des Falls = 2



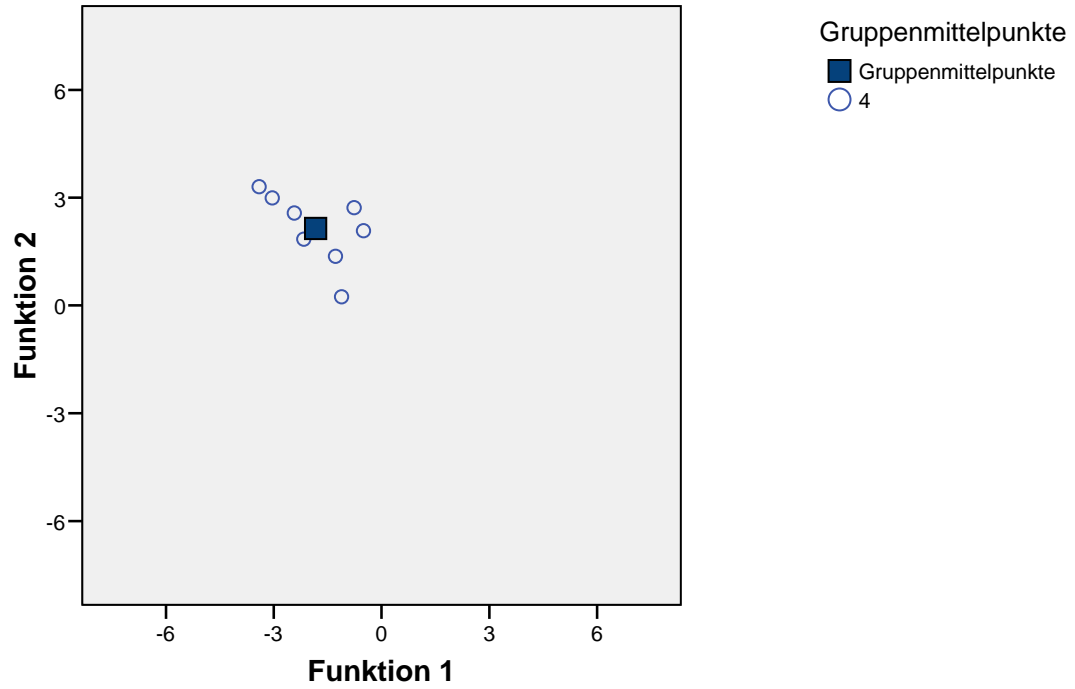
# Kanonische Diskriminanzfunktion

Cluster-Nr. des Falls = 3



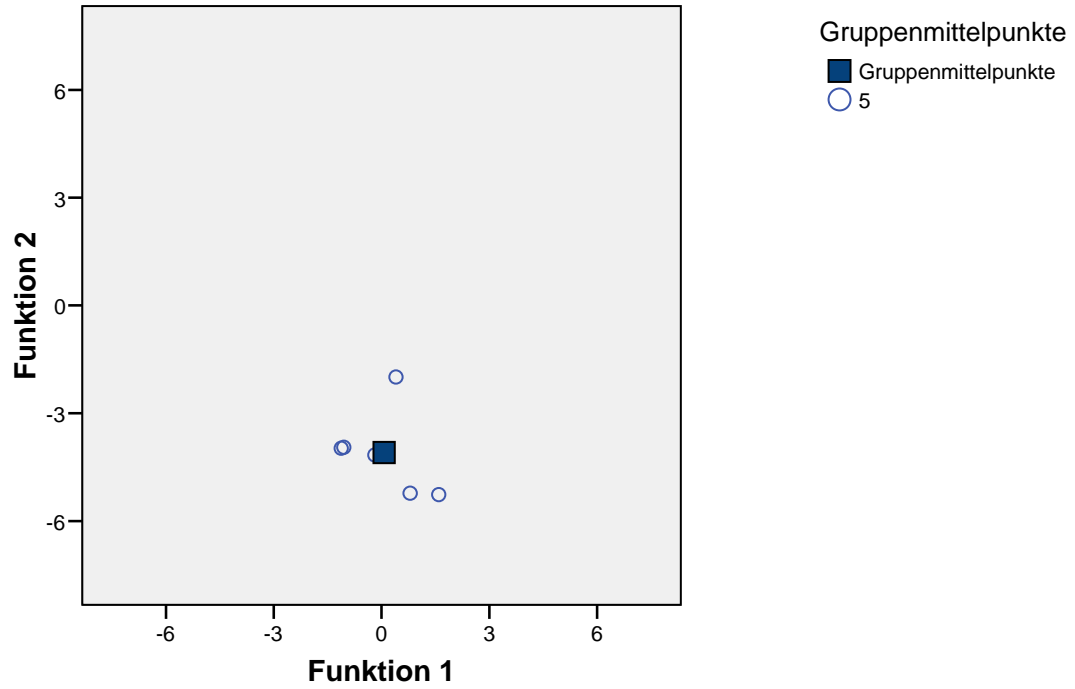
# Kanonische Diskriminanzfunktion

Cluster-Nr. des Falls = 4



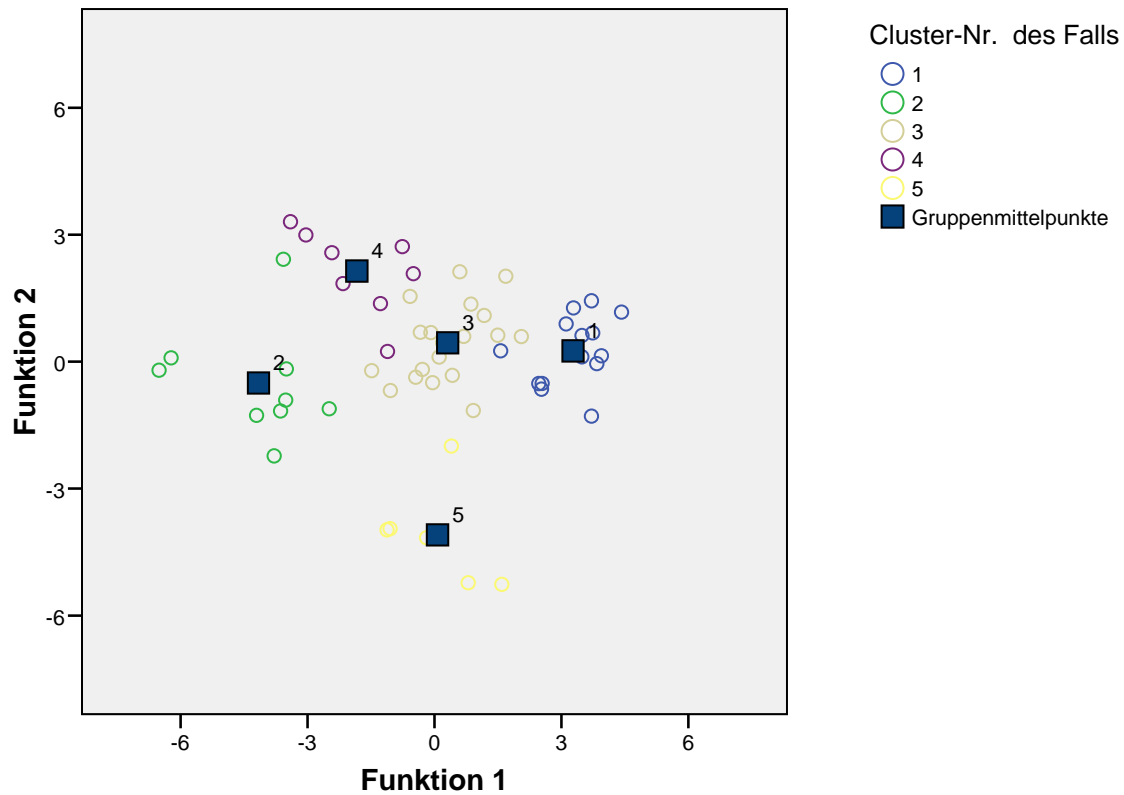
# Kanonische Diskriminanzfunktion

Cluster-Nr. des Falls = 5





## Kanonische Diskriminanzfunktion



### Klassifizierungsergebnisse<sup>b,c</sup>

			Vorhergesagte Gruppenzugehörigkeit			
			1	2	3	4
Original	Anzahl	Cluster-Nr. des Falls 1	14	0	0	0
		2	0	9	0	0
		3	0	0	19	0
		4	0	0	0	8
		5	0	0	0	0
	%	1	100,0	,0	,0	,0
		2	,0	100,0	,0	,0
		3	,0	,0	100,0	,0
		4	,0	,0	,0	100,0
		5	,0	,0	,0	,0
Kreuzvalidiert <sup>a</sup>	Anzahl	Cluster-Nr. des Falls 1	11	0	3	0
		2	0	8	0	1
		3	1	1	16	1
		4	0	1	1	6
		5	0	0	1	0
	%	1	78,6	,0	21,4	,0
		2	,0	88,9	,0	11,1
		3	5,3	5,3	84,2	5,3
		4	,0	12,5	12,5	75,0
		5	,0	,0	16,7	,0

### Klassifizierungsergebnisse<sup>b,c</sup>

			Vorherges	
			5	Gesamt
Original	Anzahl	1	0	14
		2	0	9
		3	0	19
		4	0	8
		5	6	6
	%	1	,0	100,0
		2	,0	100,0
		3	,0	100,0
		4	,0	100,0
		5	100,0	100,0
Kreuzvalidiert <sup>a</sup>	Anzahl	1	0	14
		2	0	9
		3	0	19
		4	0	8
		5	5	6
	%	1	,0	100,0
		2	,0	100,0
		3	,0	100,0
		4	,0	100,0
		5	83,3	100,0

a. Die Kreuzvalidierung wird nur für Fälle in dieser Analyse vorgenommen. In der Kreuzvalidierung ist jeder Fall durch die Funktionen klassifiziert, die von allen anderen Fällen außer diesem Fall abgeleitet werden.

b. 100,0% der ursprünglich gruppierten Fälle wurden korrekt klassifiziert.

c. 82,1% der kreuzvalidierten gruppierten Fälle wurden korrekt klassifiziert.