

Additional file 3

Selecting the preferred model for the four health domains in the summary-score strategy based on

- Profile plots (from Latent GOLD): The Profile Plot is constructed from the conditional probabilities for the nominal variables and means for the other indicators as displayed in the columns of the Profile table ('profile in numbers'). The quantities associated with the clusters are plotted and connected to form a line graph.
 - For the scale types ordinal and continuous, prior to plotting the class-specific means, they are re-scaled to always lie within the 0-1 range. Scaling of these "0-1 Means" is accomplished by subtracting the lowest observed value from the class-specific means and dividing the results by the range, which is simply the difference between the highest and the lowest observed value. The advantage of such scaling is that these numbers can be depicted on the same scale as the class-specific probabilities for nominal variables
 - For nominal variables containing more than 2 categories, all categories are displayed simultaneously.
 - For dichotomous variables specified as nominal, by default only the last category is displayed.
 - A separate line is displayed for each cluster
 - Lowest cluster size is noted and consistency of BIC (Bayesian Information Criterion) for selected models
 - Brief descriptions of subgroups are included for selected models
 - Used synonyms for subgroup: domain profile (DP), cluster, class
- Profiles in numbers (conditional probabilities from Latent GOLD)
- Loadings (from Latent GOLD)

Psychology domain – summary-score strategy

Profile-plots: Results with 3 to 10 domain profiles based on the following variables:

Okon0	On an average day, what are your possibilities of handling or controlling your pain? (0= no possibility, 10= complete control)
Okom0	How big is the chance of you being recovered within 3 months? (0=high chance, 1= Little or no chance)
Oens0	To what extent do you feel lonely? (0=not lonely, 1=little to very lonely)
Obeh0	How well do you agree: Treatment is crucial to reduce my pain? (0=fully agree, 10=fully disagree)
SBT_score	Sum-score' representing all questions related to the STarT Back Tool (9 questions) (1=high risk)
Fabqpa	Sum-score representing the following items from the Fear Avoidance Beliefs Questionnaire: 2,3,4,5 (0-24) FABQ2: Physical activity makes my pain worse (0=disagree, 3 = don't know, 6=agree) FABQ3: Physical activity might harm my back (0=disagree, 3= don't know, 6=agree) FABQ4: I should not do physical activities which (might) make my pain worse (0=disagree, 3= don't know, 6=agree) FABQ5: I cannot do physical activities which (might) make my pain worse (0=disagree, 3=don't know, 6=agree)
Fabq140	I cannot do my normal work till my pain is treated (0=disagree, 6 = agree)
Mdi_tot	Sum-score representing the Major Depression Inventory (10 questions)

AMN's suggestion on final model: 6 domain profiles (clusters)

Cluster 1: Believe in recovery, not lonely, treatment IS crucial

Cluster 2: Slightly displeased, treatment IS NOT crucial

Cluster 3: The positives – control of pain, can work despite pain and not depressed

Cluster 4: Slightly displeased, treatment IS fairly crucial

Cluster 5: The lonely and depressed patients

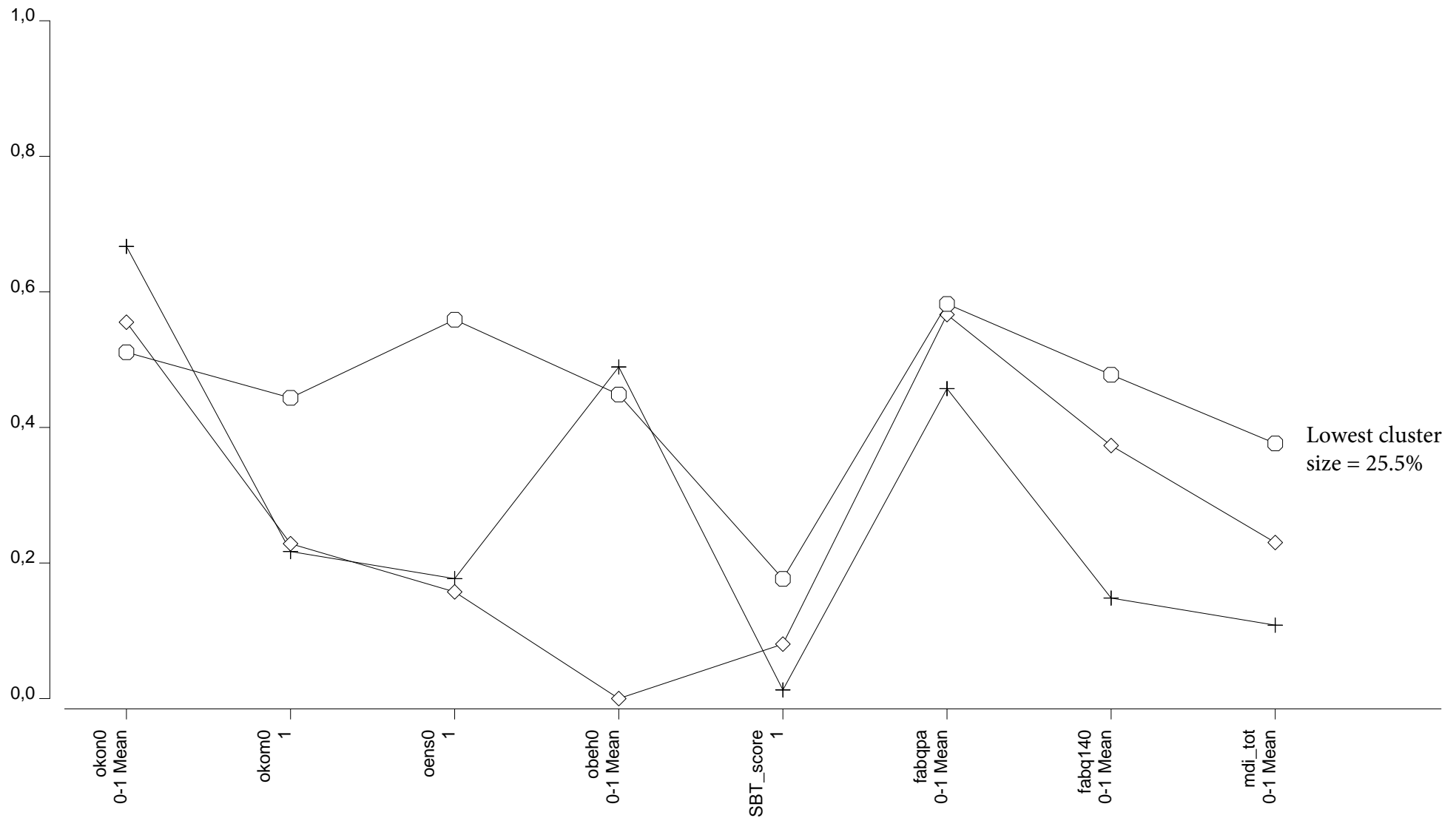
Cluster 6: The depressed patients in the high risk group with high activity limitation and unable to work because of pain

Facts:

Lowest cluster size = 3.66 % (equals approx. 34 patients out of the 928 included)

The seed number used was based on a BIC appearing 4 out of 10 rounds within the statistical analysis

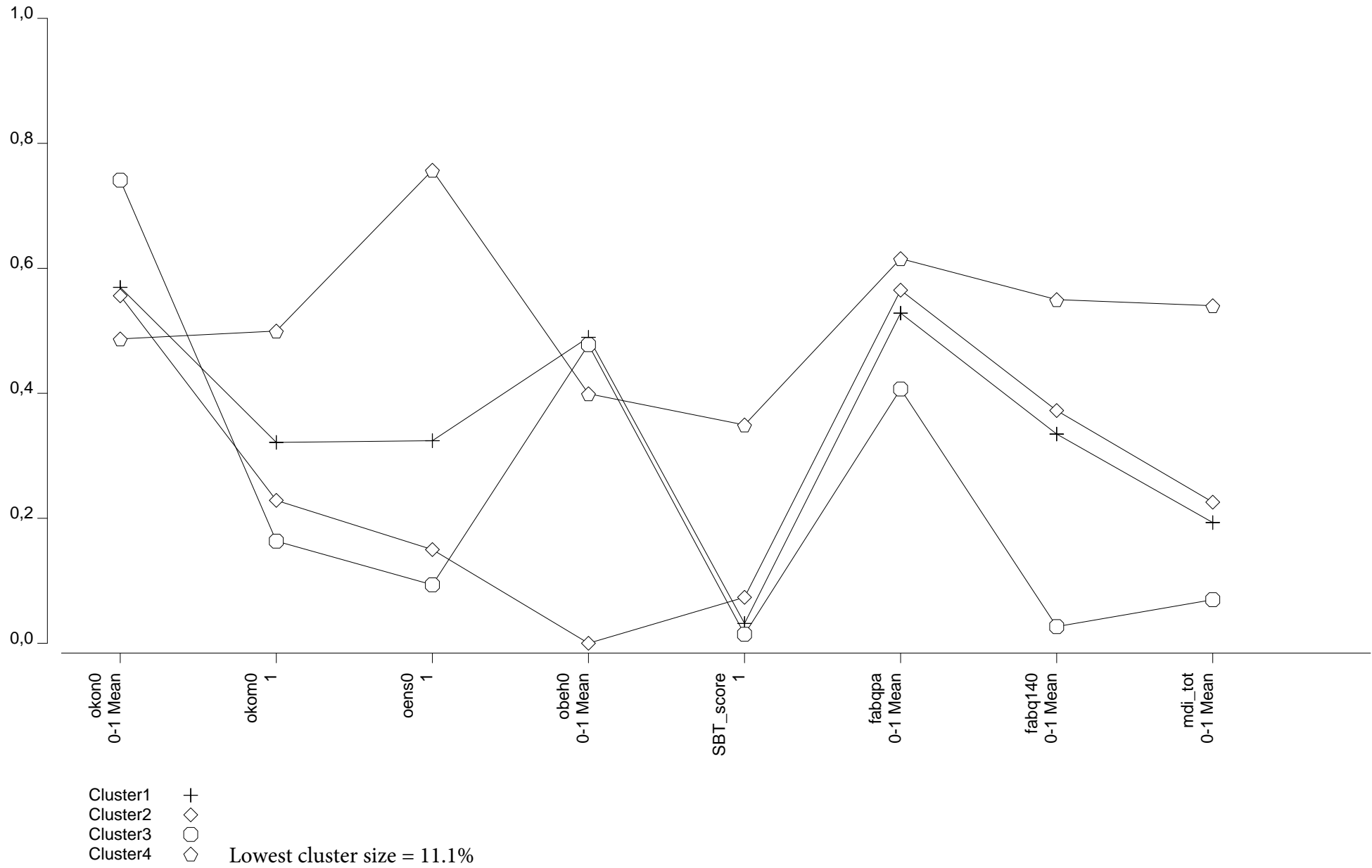
Psychology domain, summary-score, 3-domain profiles



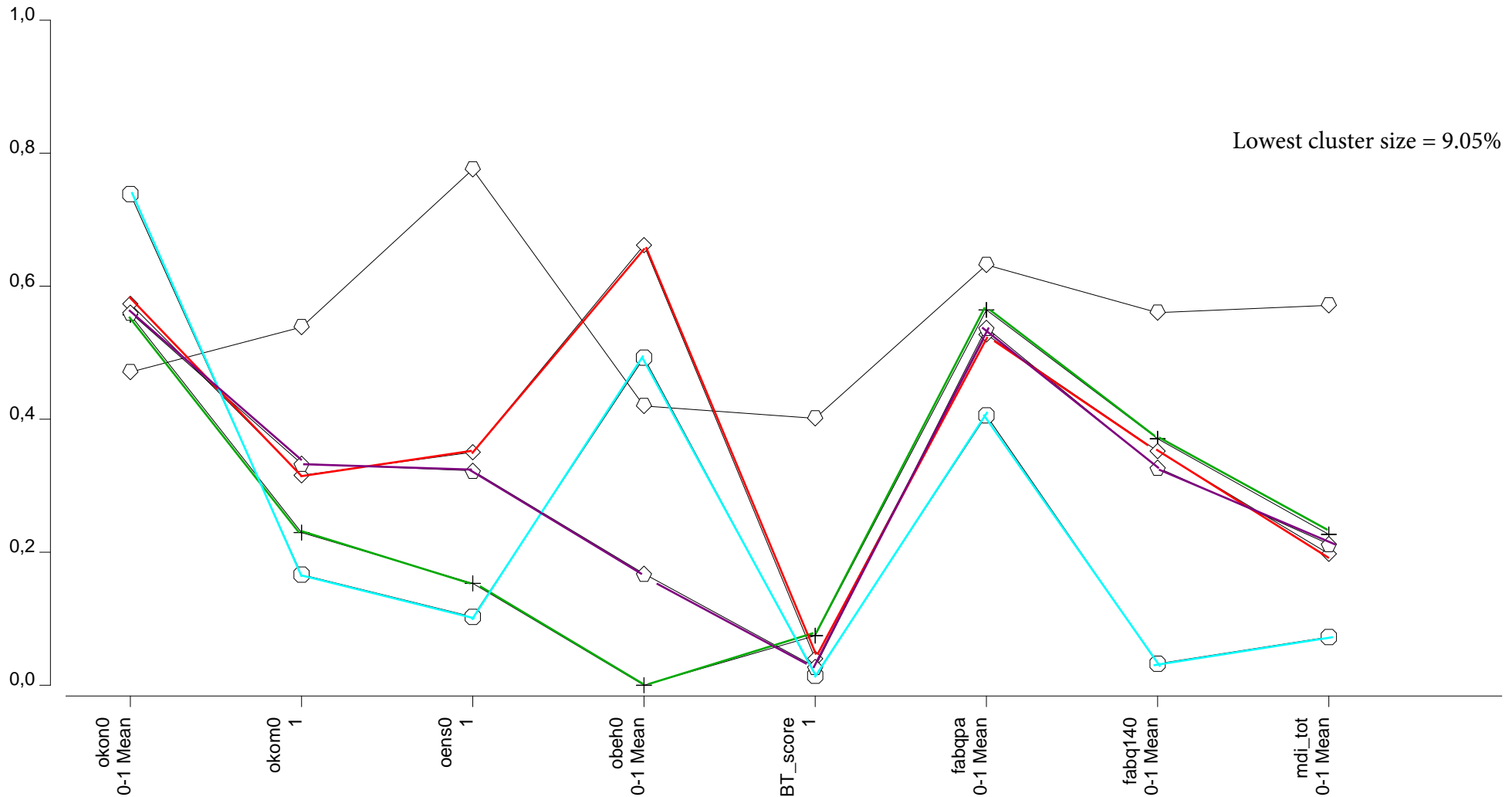
Lowest cluster size = 25.5%

- Cluster1 + **Cluster 1: Believe in recovery within 3 months, not lonely, treatment is not crucial to reduce pain and not depressed**
- Cluster2 ◇ **Cluster 2: Believe in recovery within 3 months, not lonely, treatment IS crucial to reduce pain and not depressed**
- Cluster3 ○ **Cluster 3: Doubt if recovered within 3 months, a little lonely, treatment is not crucial to reduce pain and slightly/moderately depressed**

Psychology domain, summary-score, 4-domain profiles



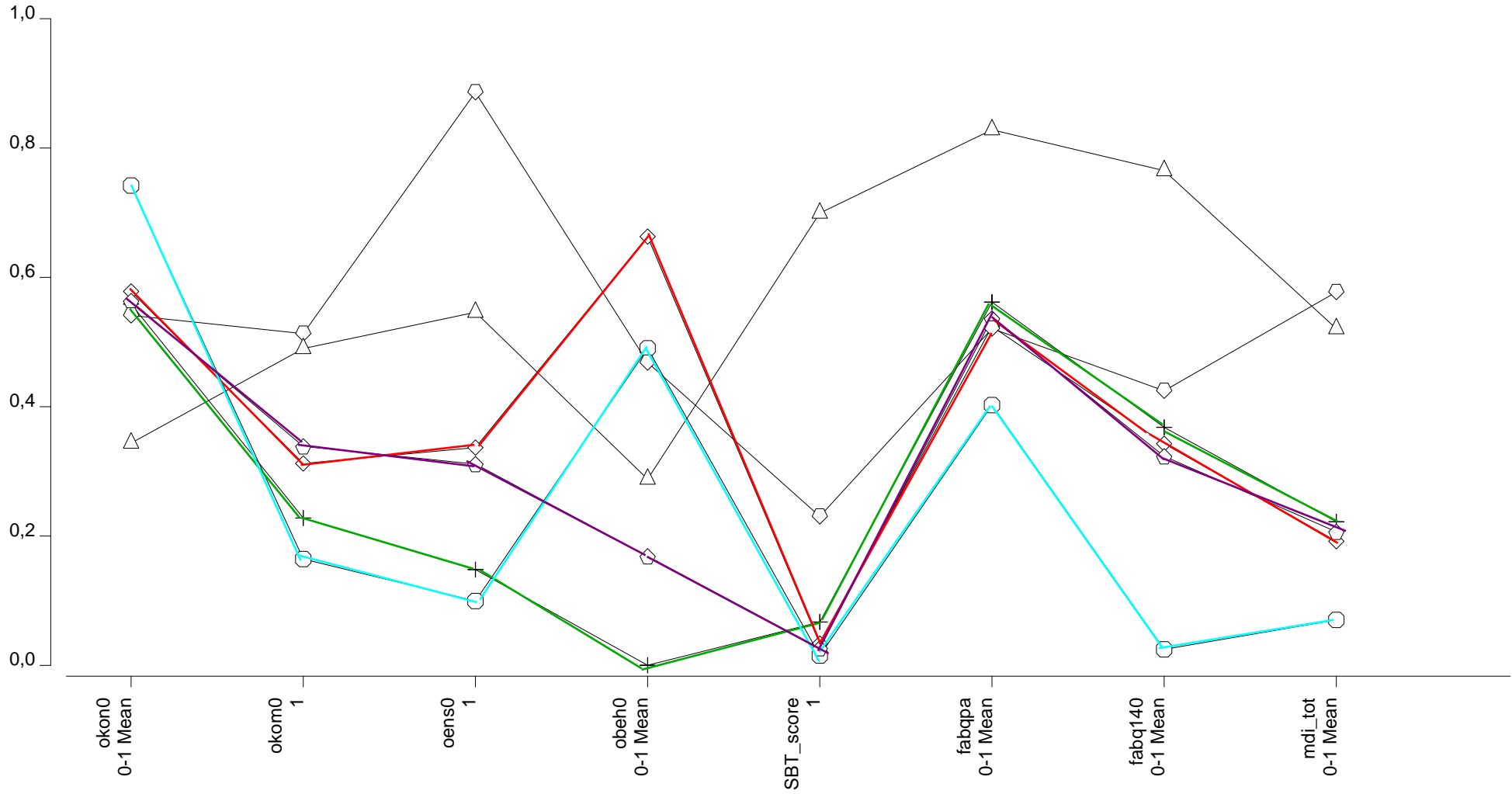
Psychology domain, summary-scores, 5-domain profiles,



Lowest cluster size = 9.05%

- Cluster1: believe in recovery, not lonely, treatment IS crucial, low risk group (SBT), slightly depressed (=cluster 2, 3class model)
- Cluster2: might believe in recovery, slightly lonely, treatment IS NOT crucial, low risk group (SBT), slightly depressed. Similar to cluster 1, but less chance of recovery and slightly lonely and treatment IS NOT crucial.
- Cluster3: control of pain, believe in recovery, not lonely, low risk group (SBT), low activity limitation, not depressed (=cluster 1, 3-class model)
- Cluster4: might recover, slightly lonely, treatment only slightly crucial, low risk group (SBT), slightly depressed. Similar to cluster 2, but differs on 'treatment variable' - treatment is fairly crucial for this cluster
- Cluster5: some control of pain, doubt if recovered, lonely, treatment might help, high risk (SBT), activity limitation, might not be able to work before pain is treated, depressed (=cluster 3, 3class model, but more outstanding = less believe in recovery, more lonely, more depressed, high risk group (SBT), can't work before pain is treated, more depressed

Psychology domain, summary-scores, 6 domain profiles

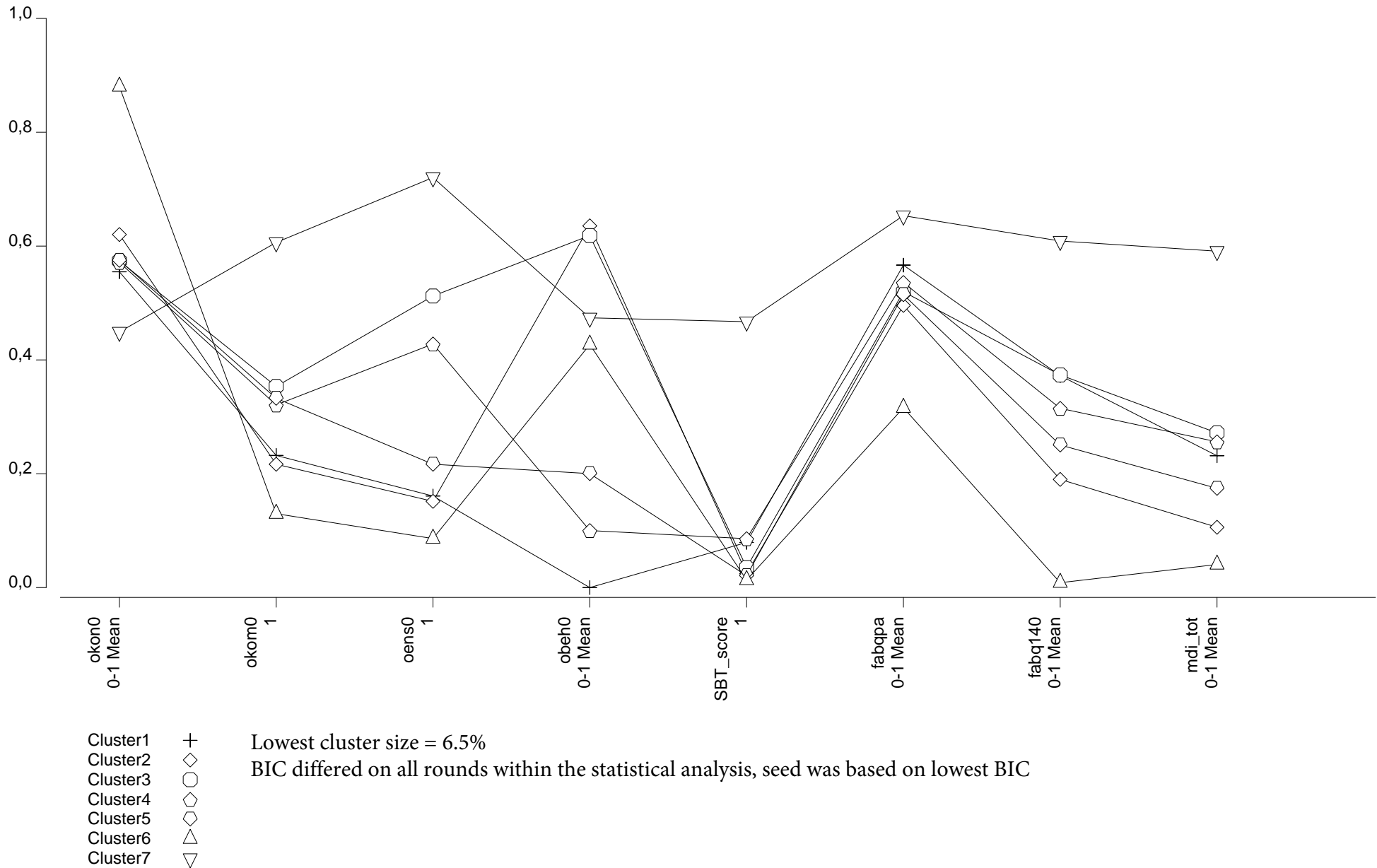


- Cluster1 +
- Cluster2 ◊
- Cluster3 ○
- Cluster4 ◊
- Cluster5 ◊
- Cluster6 △

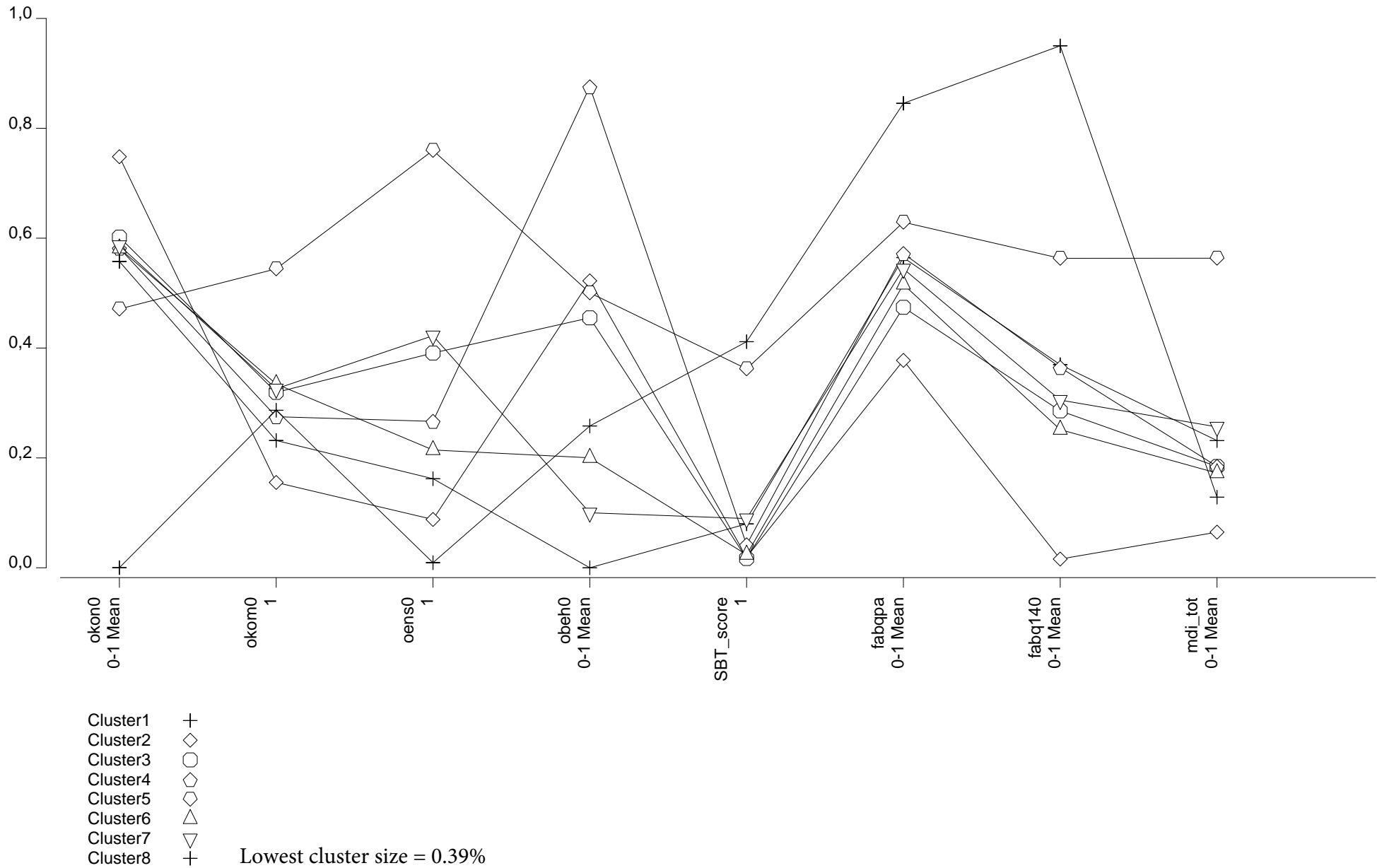
Equals the 5-domain profiles model, BUT the 'depressed' cluster 5 is now split into two different clusters :
 - cluster 5 being worse off in relation to loneliness
 - cluster 6 being worse off in relation to the SBT Score (high risk) and afraid of physical activity/cannot work

Lowest cluster size = 3.66%

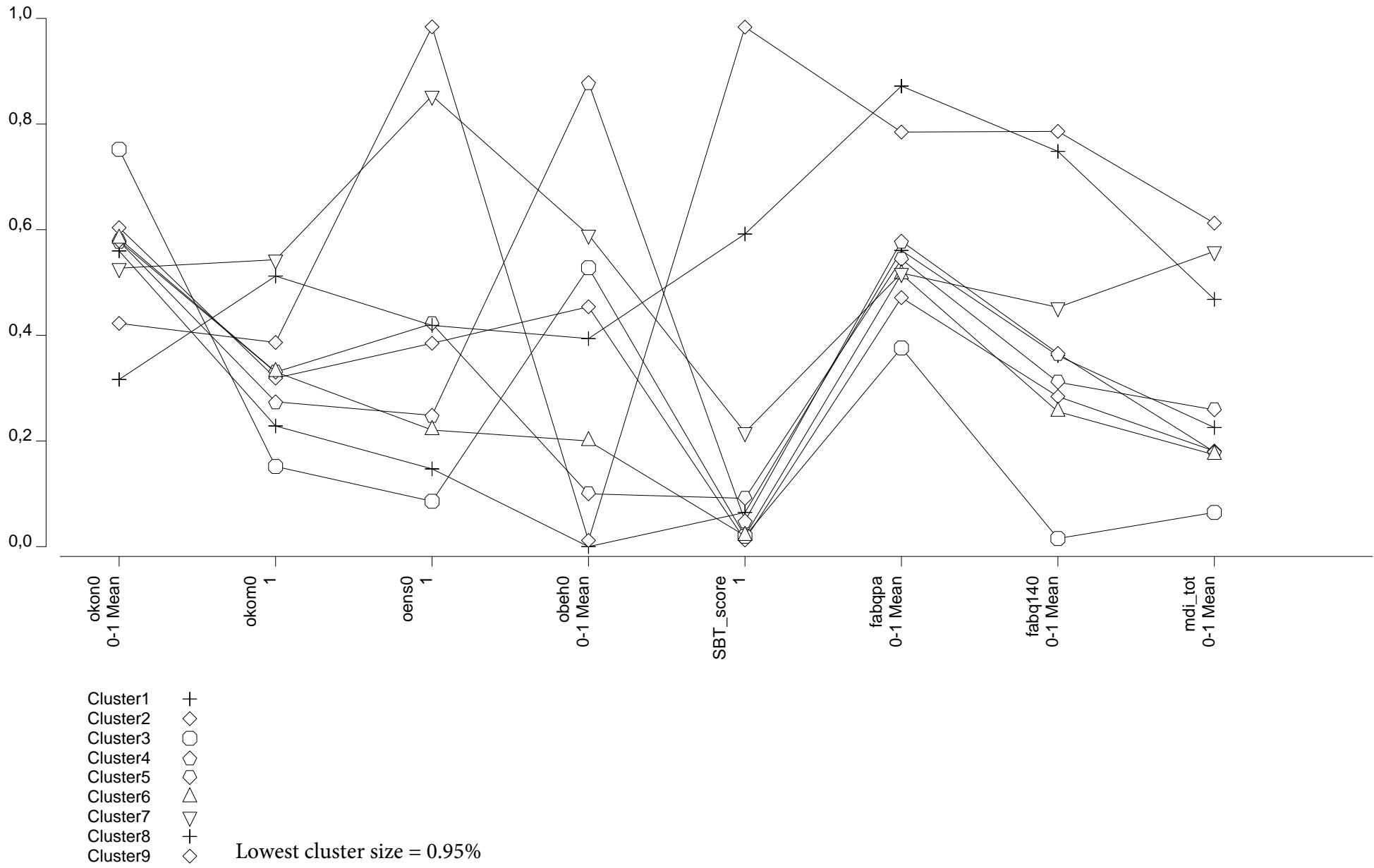
Psychology domain, summary-score, 7-domain profiles



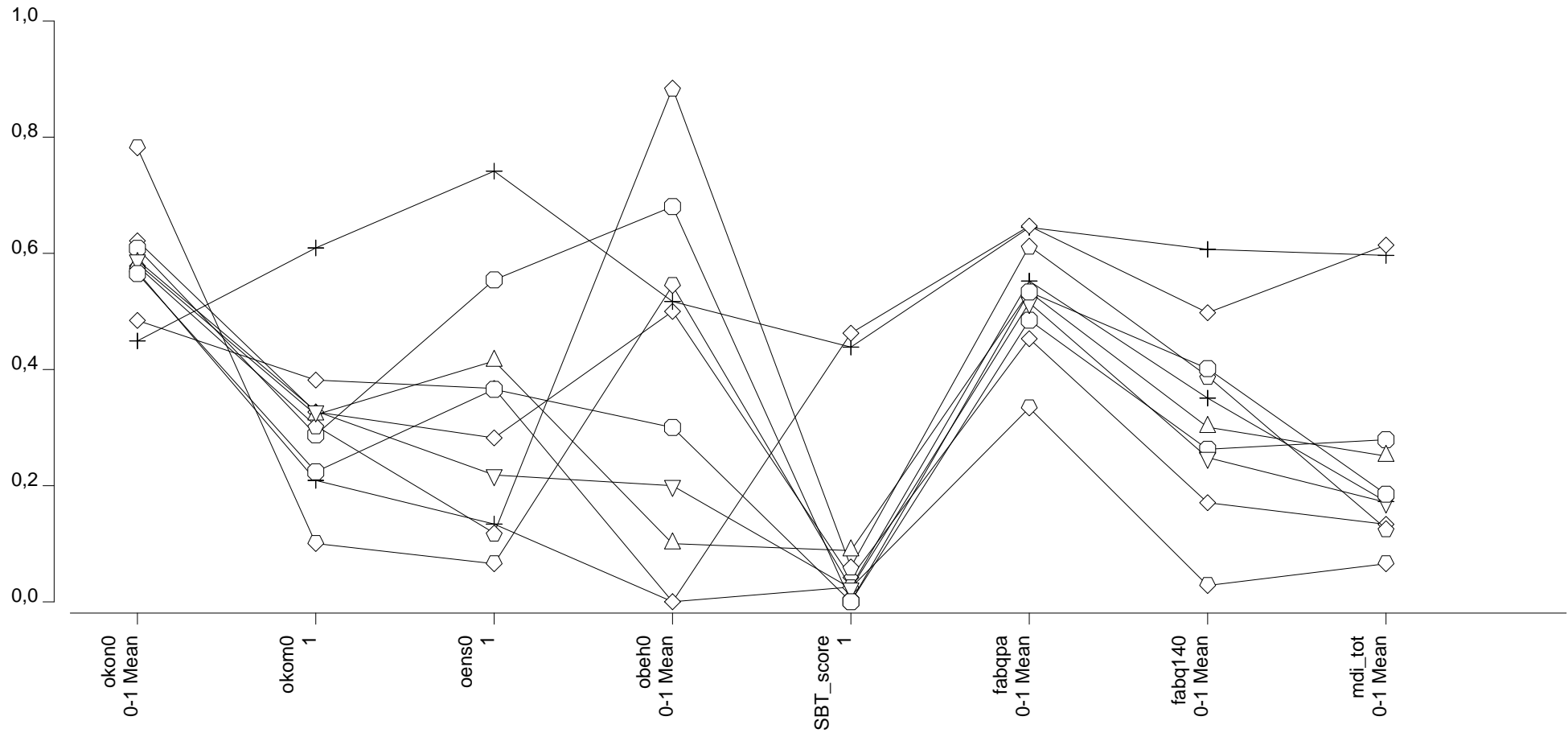
Psychology domain, summary-score, 8-domain profiles



Psychology domain, summary-score, 9-domain profiles



Psychology domain, summary-score, 10-domain profiles



Cluster1 +
 Cluster2 ◇
 Cluster3 ○
 Cluster4 ◇
 Cluster5 ◇
 Cluster6 △
 Cluster7 ▽
 Cluster8 +
 Cluster9 ◇
 Cluster10 ○

Lowest cluster size = 4.07%

Profile in numbers – 5-DP, psychology domain, summary-score

The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities

5-DP	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.	Cluster4	s.e.	Cluster5	s.e.
Cluster Size	35,43%	0,0162	22,83%	0,0282	19,23%	0,0305	13,47%	0,0168	9,05%	0,0152
Indicators										
okon0										
Mean	5,5673	0,152	5,7328	0,2252	7,3833	0,1986	5,6014	0,2348	4,7069	0,2584
okom0										
0	0,7705	0,0237	0,6846	0,0416	0,8337	0,036	0,667	0,05	0,4617	0,0672
1	0,2295	0,0237	0,3154	0,0416	0,1663	0,036	0,333	0,05	0,5383	0,0672
oens0										
0	0,8469	0,0209	0,6497	0,0474	0,8973	0,0336	0,6777	0,0527	0,2244	0,0575
1	0,1531	0,0209	0,3503	0,0474	0,1027	0,0336	0,3223	0,0527	0,7756	0,0575
obeh0										
Mean	0	0,0045	6,6162	0,2997	4,9248	0,29	1,6765	0,1067	4,1974	0,4202
SBT_score										
0	0,9256	0,0155	0,9601	0,0182	0,9858	0,0107	0,9725	0,0186	0,5987	0,0708
1	0,0744	0,0155	0,0399	0,0182	0,0142	0,0107	0,0275	0,0186	0,4013	0,0708
fabqpa										
Mean	13,5405	0,3346	12,6519	0,4684	9,7343	0,5285	12,8932	0,4381	15,1631	0,6437
fabq140										
0	0,3937	0,0273	0,4127	0,0397	0,8718	0,076	0,4387	0,0467	0,2216	0,0465
1	0,1081	0,0131	0,1109	0,0146	0,0879	0,0304	0,1144	0,0146	0,0748	0,0138
2	0,0787	0,0109	0,079	0,0109	0,0235	0,0199	0,0791	0,0109	0,0669	0,0107
3	0,1047	0,0122	0,1028	0,0124	0,0115	0,0156	0,0998	0,0126	0,1093	0,0128
4	0,0794	0,0109	0,0763	0,0118	0,0032	0,006	0,0719	0,012	0,1019	0,0141
5	0,0861	0,0119	0,0809	0,0142	0,0013	0,003	0,0741	0,0145	0,1359	0,0212
6	0,1494	0,0181	0,1374	0,0257	0,0008	0,0023	0,122	0,0269	0,2896	0,0485
Mean	2,2238	0,1387	2,1113	0,2248	0,1934	0,1681	1,9618	0,2513	3,361	0,332
mdi_tot										
Mean	8,3845	0,428	7,3076	0,619	2,6775	0,2785	7,8495	0,6049	21,1338	1,4628

Loadings – 5DP	Clusters	R ²
okon0	0,3223	0,1039
okom0	0,224	0,0502
oens0	0,4237	0,1796
obeh0	0,8274	0,6846
SBT_score	0,3891	0,1514
fabqpa	0,2911	0,0847
fabq140	0,3988	0,159
mdi_tot	0,6359	0,4043

Profile in numbers – 6DP

The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities

Psych. domain, sum. score	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.	Cluster4	s.e.	Cluster5	s.e.	Cluster6	s.e.
6-DP												
Cluster Size	35,14%	0,0162	23,08%	0,0275	18,23%	0,0271	13,28%	0,0166	6,61%	0,0154	3,66%	0,0094
Indicators												
okon0												
Mean	5,5867	0,1527	5,7821	0,2071	7,418	0,1974	5,632	0,2385	5,4102	0,3024	3,4356	0,3599
okom0												
0	0,7721	0,0237	0,6878	0,0403	0,8357	0,0372	0,6615	0,0506	0,4871	0,082	0,5102	0,1084
1	0,2279	0,0237	0,3122	0,0403	0,1643	0,0372	0,3385	0,0506	0,5129	0,082	0,4898	0,1084
oens0												
0	0,852	0,0206	0,6633	0,0464	0,9006	0,0333	0,6888	0,055	0,1138	0,0585	0,4541	0,1079
1	0,148	0,0206	0,3367	0,0464	0,0994	0,0333	0,3112	0,055	0,8862	0,0585	0,5459	0,1079
obeh0												
Mean	0	0,0042	6,629	0,2966	4,9026	0,2942	1,6851	0,108	4,6802	0,4977	2,8781	0,5405
SBT_score												
0	0,933	0,015	0,9664	0,0151	0,985	0,0111	0,9737	0,0192	0,7698	0,068	0,3007	0,1233
1	0,067	0,015	0,0336	0,0151	0,015	0,0111	0,0263	0,0192	0,2302	0,068	0,6993	0,1233
fabqpa												
Mean	13,4797	0,3349	12,5752	0,4462	9,6559	0,5382	12,873	0,4455	12,5002	0,6236	19,8754	0,7568
fabq140												
0	0,3929	0,0271	0,4188	0,0382	0,8934	0,0692	0,4391	0,0476	0,3377	0,0638	0,0744	0,0424
1	0,1103	0,0134	0,1142	0,0148	0,0787	0,0335	0,1169	0,015	0,1011	0,0164	0,0337	0,0154
2	0,0801	0,0109	0,0804	0,0109	0,0179	0,0181	0,0804	0,0109	0,0782	0,0111	0,0395	0,0135
3	0,1059	0,0123	0,1031	0,0125	0,0074	0,0119	0,1007	0,0128	0,1102	0,0131	0,0844	0,0187
4	0,0799	0,011	0,0755	0,0117	0,0018	0,0038	0,072	0,0122	0,0886	0,0149	0,1027	0,0153
5	0,0857	0,0119	0,0786	0,0135	0,0006	0,0016	0,0732	0,0147	0,1013	0,0216	0,178	0,0238
6	0,1453	0,018	0,1294	0,0234	0,0003	0,001	0,1176	0,027	0,183	0,0475	0,4871	0,0853
Mean	2,2078	0,1383	2,0558	0,2099	0,1485	0,1337	1,9399	0,256	2,5468	0,3967	4,59	0,4292
mdi_tot												
Mean	8,2124	0,41	7,0954	0,5166	2,5986	0,2643	7,6352	0,6286	21,356	1,8941	19,2617	2,071

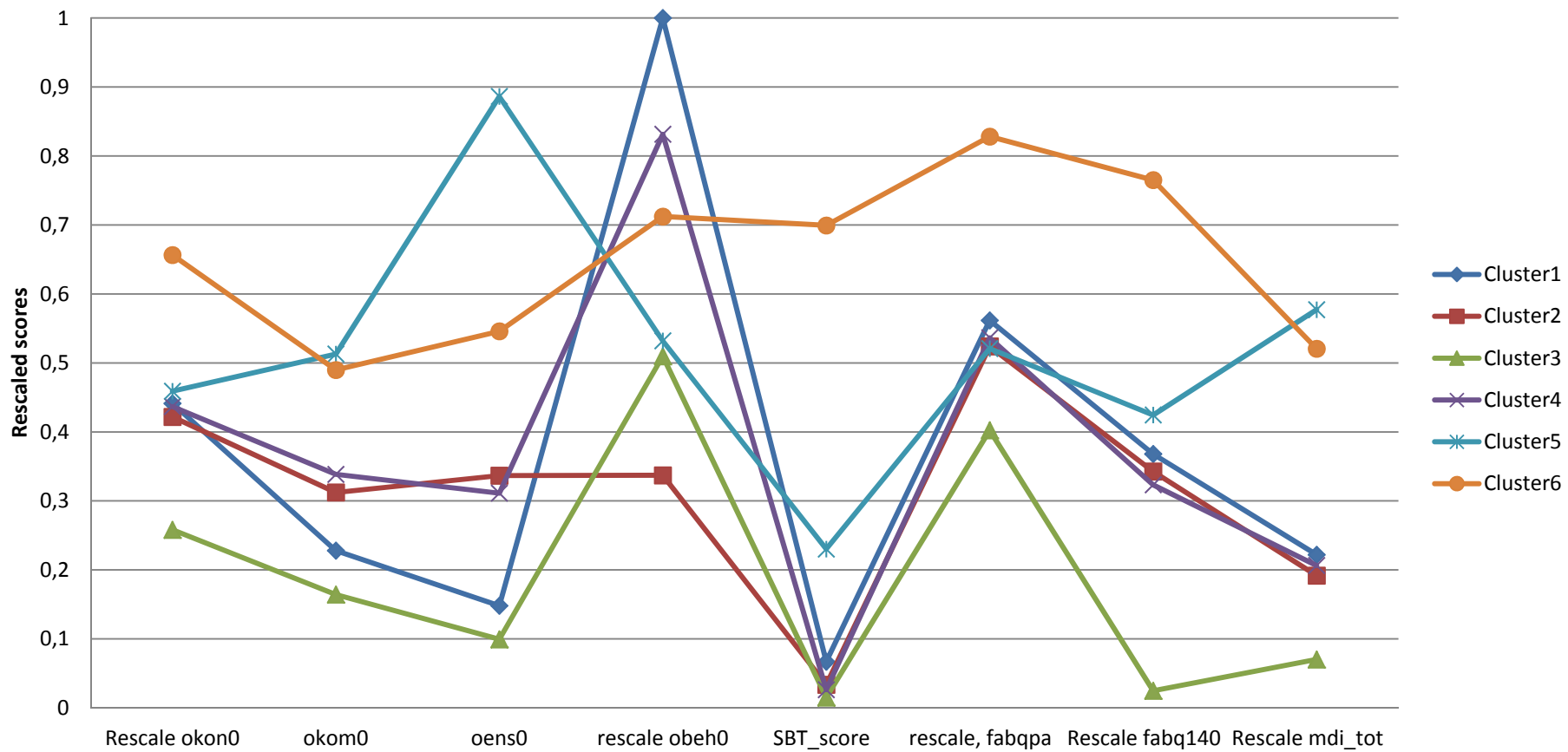
Loadings - 6DP	Clusters	R ²
okon0	0,3469	0,1203
okom0	0,2149	0,0462
oens0	0,4498	0,2024
obeh0	0,829	0,6873
SBT_score	0,4886	0,2388
fabqpa	0,359	0,1289
fabq140	0,421	0,1772
mdi_tot	0,6469	0,4185

Loadings – psychology domain, summary-score – 6-DP

The quantities reported under Clusters are simply correlations, representing the square root of the corresponding 'R²' or communality of the associated indicator.

Correlations: These are standardised values for the loadings reported in the Loadings output. They represent correlations between the indicators and factors.

Psychology domain, summary-score, 6-domain profiles



Pain domain v. 2 – summary-score strategy

Profile-plots: Results with 2 to 7 domain profiles based on the following variables:

Dlva0	For how long has this episode of LBP lasted? (0-2 weeks, 2-4 weeks, 1-3 months, >3 months)
Vasl0	Numeric pain rating scale, 0-10 (10=worst imaginable pain)
Vasb0	Numeric pain rating scale (0=no pain, 1 = mild pain, 2 = moderate-severe pain), ordinal variable
Tlep0	How many episodes of LBP have you had before this one? (0, 1-3, >3)
Tlda0	How many days have you had LBP within the last year? (30 days or less, >30 days)
Fabq10	My pain was caused by physical activity (0=disagree, 3 = don't know, 6=agree)
Pain_dis	Pain distribution (0=back pain only, 1=back pain and pain in one leg, 2=back pain and pain in two legs, 3=only leg pain)?
Domin_bp	Dominating back pain? (0=no, 1=yes)
Paraspin_debut	Paraspinal pain onset? (0=no, 1=yes)

AMN's suggestion on final model: 6 domain profiles (clusters) both based on statistical criteria and profile plots

Cluster 1: very short duration of BP, high intensity back pain, no leg pain

Cluster 2: very short duration of BP, high intensity back pain, high intensity leg pain, often only back pain, but sometimes pain in one leg,

Cluster 3: short duration of BP, low intensity back pain, very often only back pain

Cluster 4: long duration of BP (>1 month), moderate intensity back pain, low intensity leg pain, more than 30 days of LBP last year, very often only back pain

Cluster 5: long duration of back pain (>1 month), high intensity back pain, very high intensity leg pain, more than 30 days of LBP last year, often back pain and pain in one leg, often dominating back pain

Cluster 6: short duration of BP, moderate intensity back pain, very high intensity leg pain, often back pain and pain in one leg, but sometimes only leg pain, very often leg pain is dominating (very seldom back pain is dominating)

Pain domain version 2: the variable 'leg pain intensity' was used as continuous in version 1 (results not shown) and ordinal in version 2

Description of model: Pain domain v.2, summary-score strategy, 6-domain profiles

Variables not mentioned in the description: tlep0, fabq10, paraspin_debut (cf. reduced profile plot of final model)

Cluster 1: 0-2 weeks of back pain (**very short duration of BP**), **high intensity back pain**, very low intensity leg pain, less than 30 days of LBP last year, very often dominating back pain, **no leg pain**

Cluster 2: 0-2 weeks of back pain (very short duration of BP), high intensity back pain, high intensity leg pain, less than 30 days of LBP last year, often only back pain, but sometimes pain in one leg, very often dominating back pain

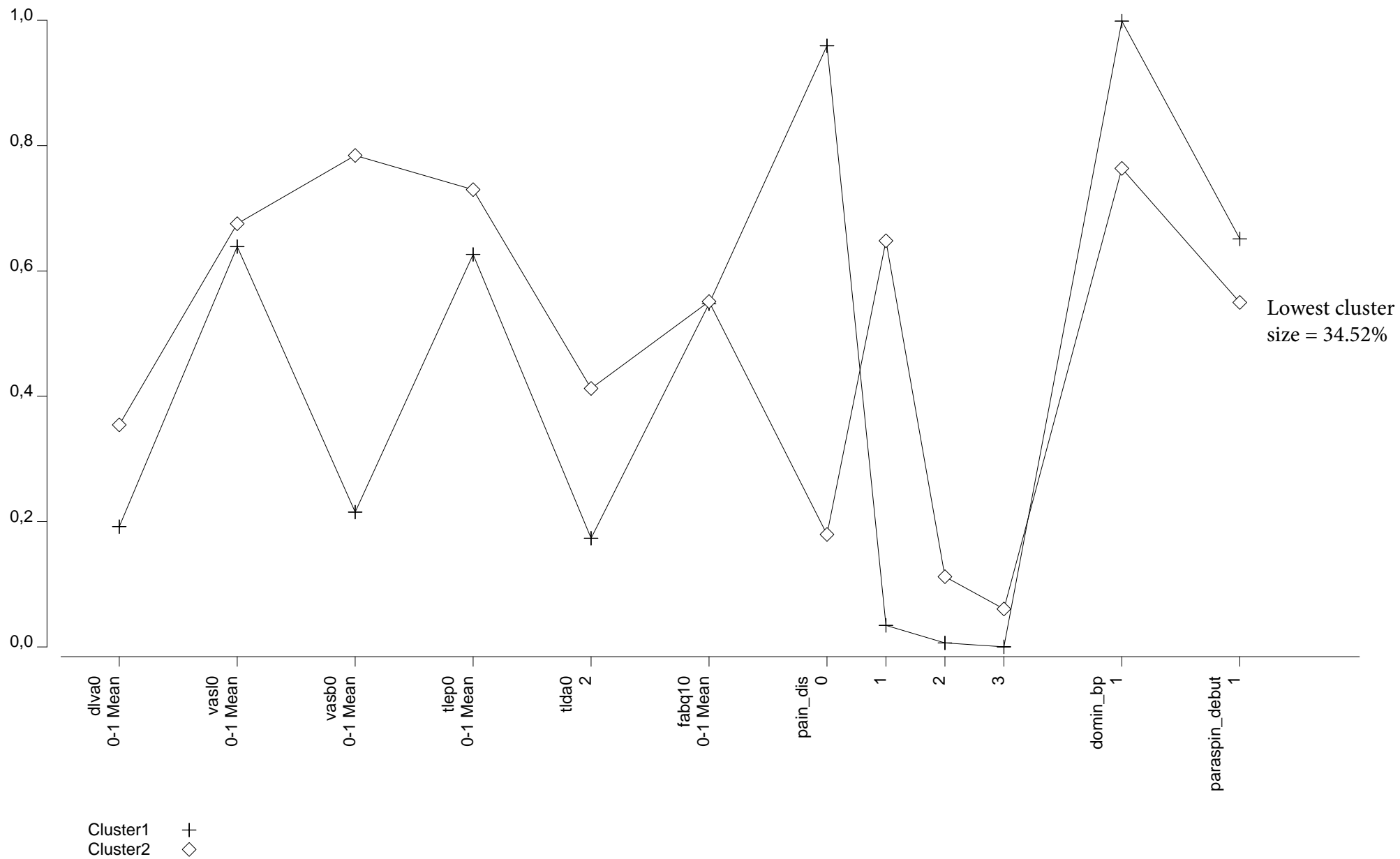
Cluster 3: 0-4 weeks of back pain (short duration of BP), low intensity back pain, very low intensity leg pain, less than 30 days of LBP last year, very often only back pain and dominating back pain

Cluster 4: long duration of BP (>1 month), moderate intensity back pain, low intensity leg pain, more than 30 days of LBP last year, very often only back pain, very often dominating back pain

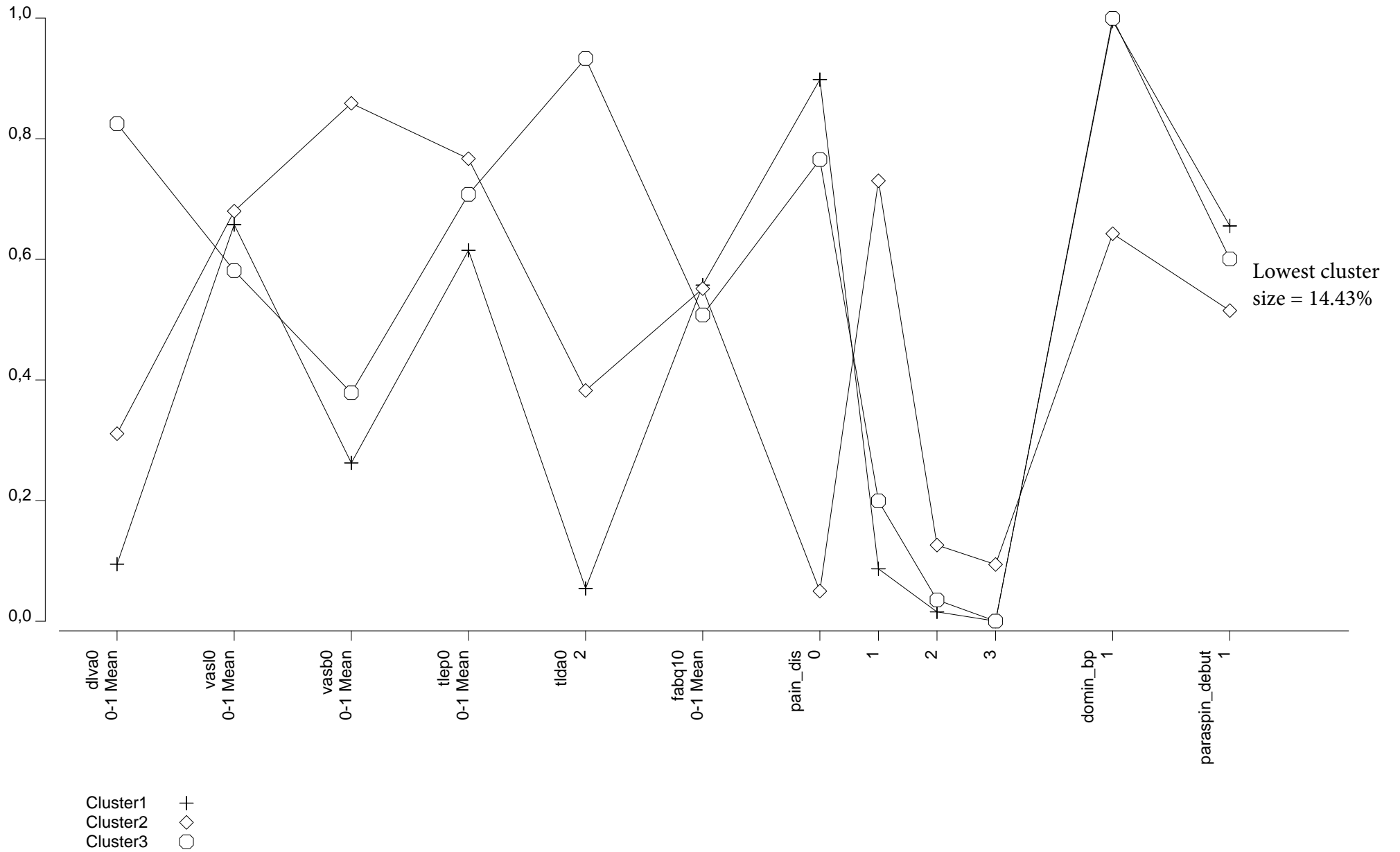
Cluster 5: long duration of back pain (>1 month), high intensity back pain, very high intensity leg pain, more than 30 days of LBP last year, often back pain and pain in one leg, often dominating back pain

Cluster 6: 0-4 weeks of back pain (short duration of BP), moderate intensity back pain, very high intensity leg pain, less than 30 days of LBP last year, often back pain and pain in one leg, but sometimes only leg pain, very often leg pain is dominating (very seldom back pain is dominating)

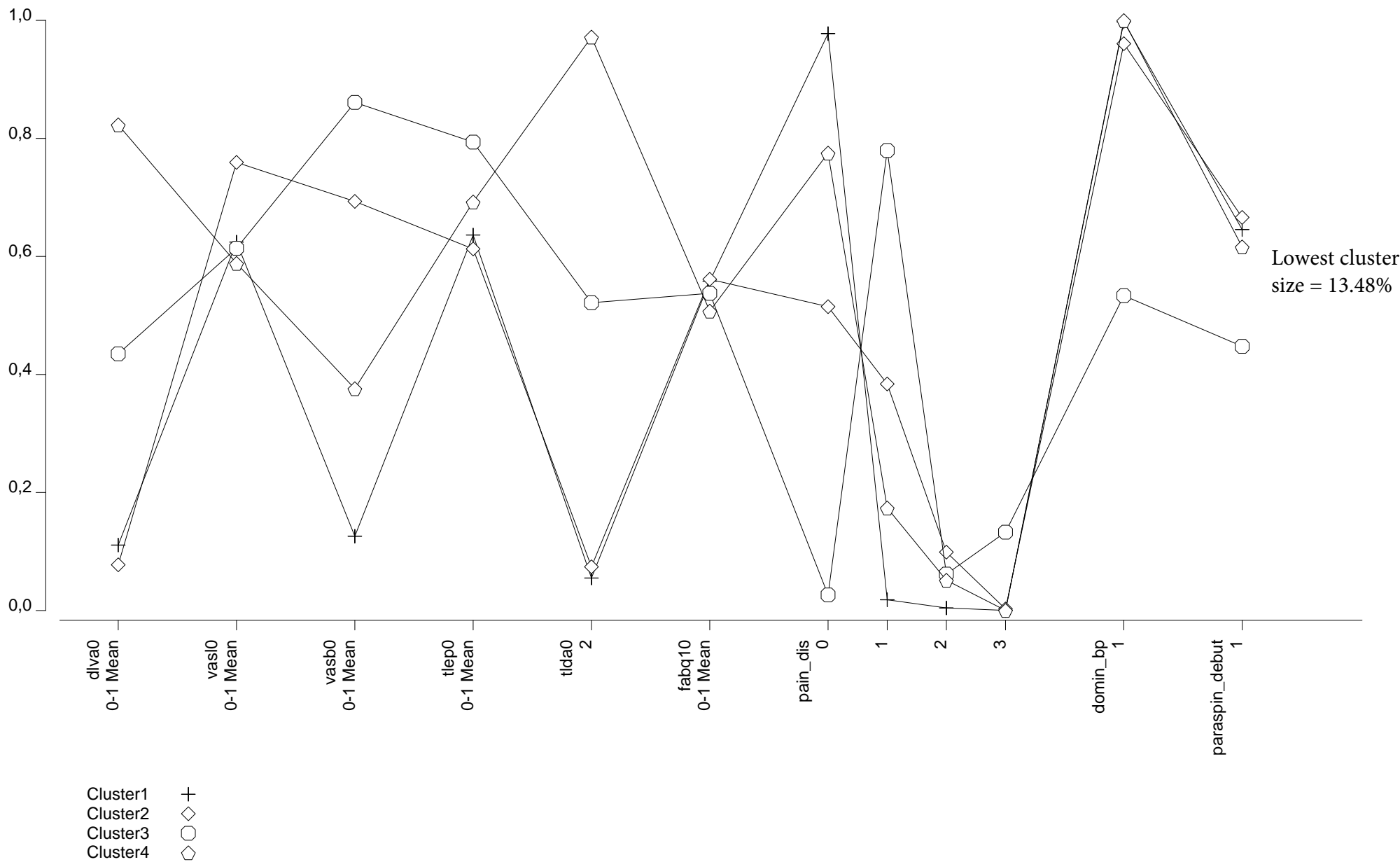
Pain domain v. 2, summary-score strategy, 2-domain profiles



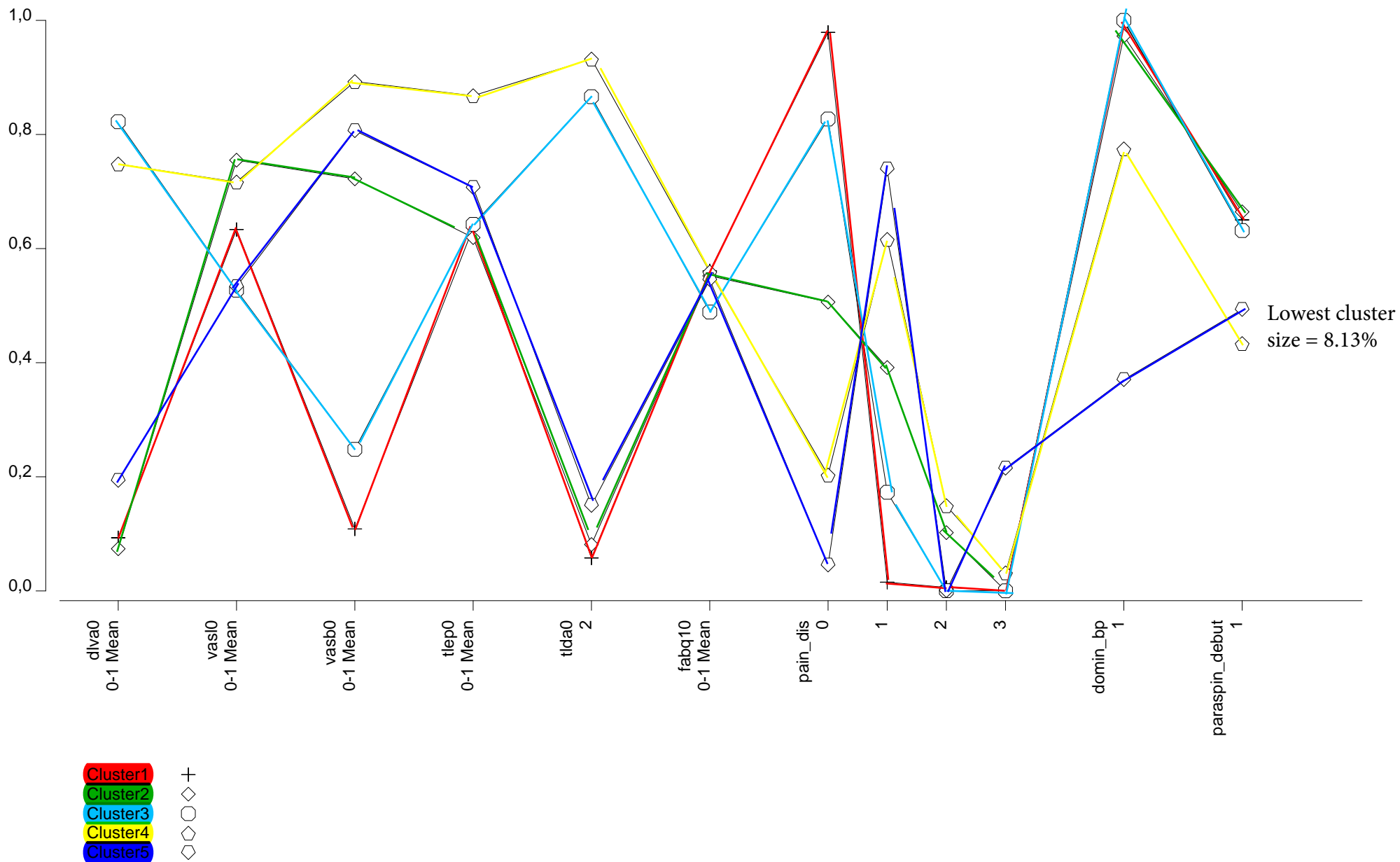
Pain domain v. 2, summary-score strategy, 3-domain profiles



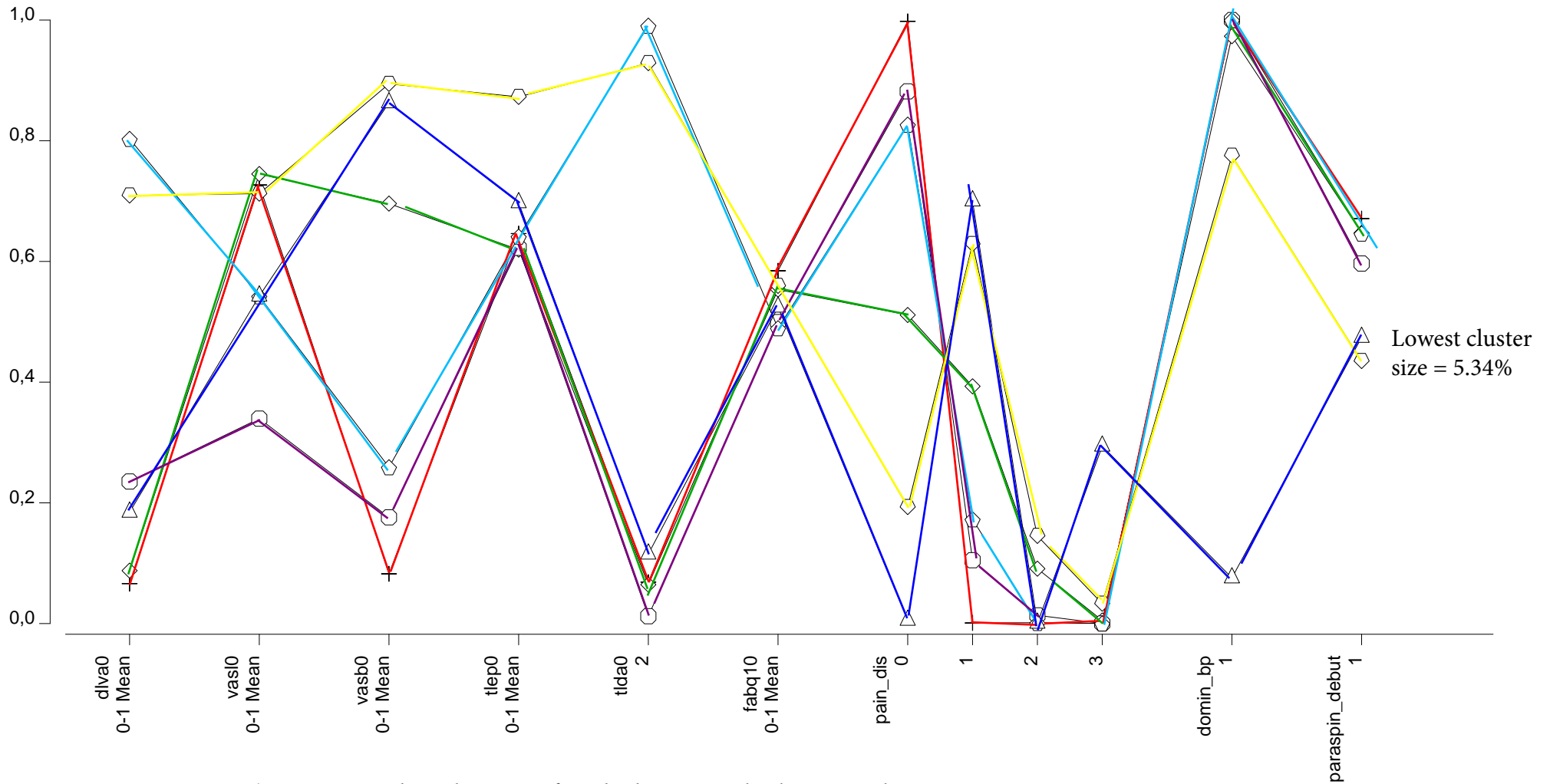
Pain domain v. 2, summary-score strategy, 4-domain profiles



Pain domain v. 2, summary-score strategy, 5-domain profiles

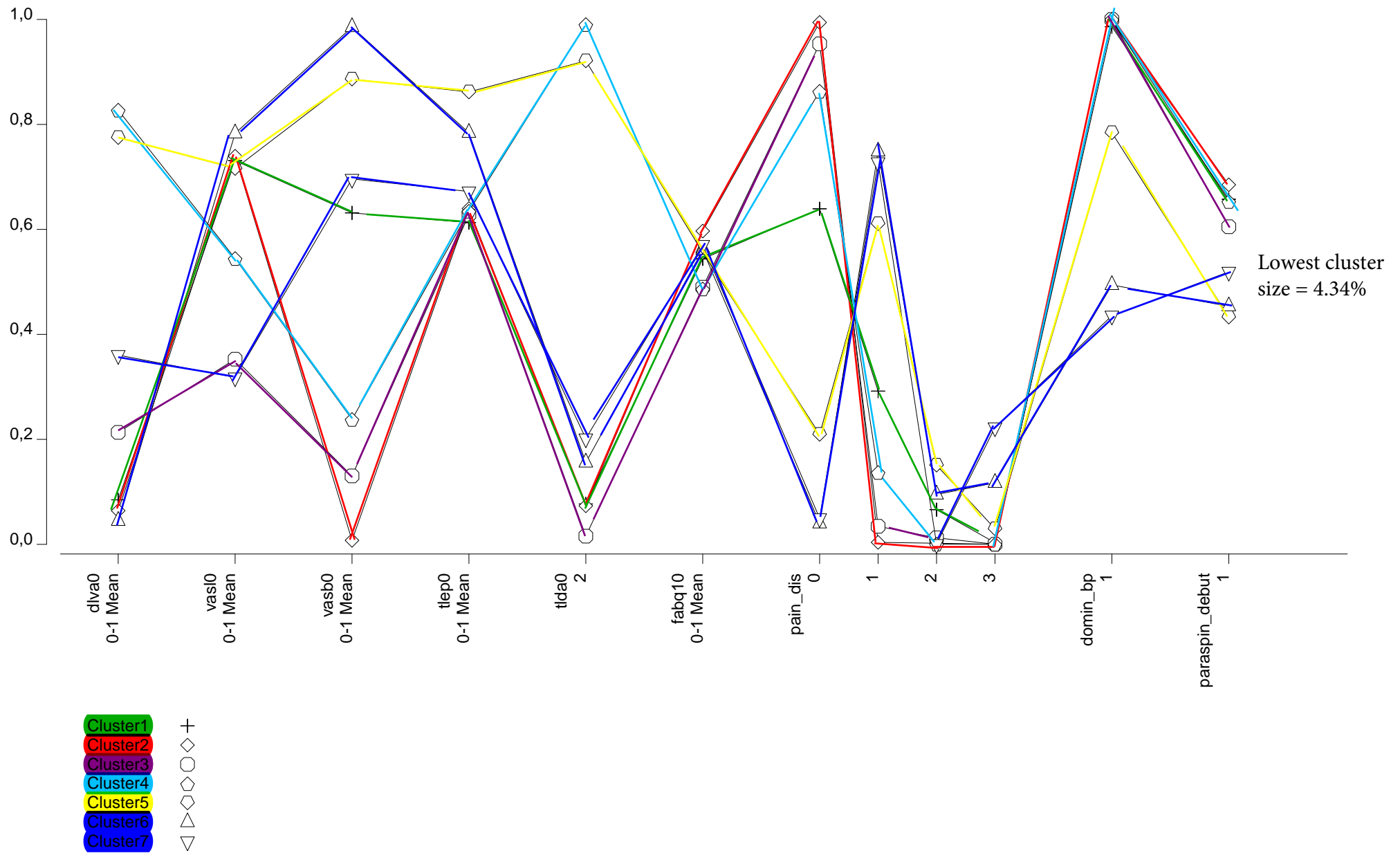


Pain domain v. 2, summary-score strategy, 6-domain profiles



- Cluster1 + **Cluster 1:** very short duration of BP, high intensity back pain, no leg pain
- Cluster2 ○ **Cluster 2:** very short duration of BP, high intensity back pain, high intensity leg pain, often only back pain, but sometimes pain in one leg,
- Cluster3 ◇ **Cluster 3:** short duration of BP, low intensity back pain, very often only back pain
- Cluster4 ◇ **Cluster 4:** long duration of BP (>1 month), moderate intensity back pain, low intensity leg pain, more than 30 days of LBP last year, very often only back pain
- Cluster5 ◇ **Cluster 5:** long duration of back pain (>1 month), high intensity back pain, very high intensity leg pain, more than 30 days of LBP last year, often back pain and pain in one leg, often dominating back pain
- Cluster6 △ **Cluster 6:** short duration of BP, moderate intensity back pain, very high intensity leg pain, often back pain and pain in one leg, but sometimes only leg pain, very often leg pain is dominating (very seldom back pain is dominating)

Pain domain v. 2, summary-score strategy, 7-domain profiles



Profiles in numbers – pain domain v.2, 5-DP, sum.score

The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities

Pain v.2, sum.score 5-DP	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.	Cluster4	s.e.	Cluster5	s.e.
Cluster Size	45,48%	0,0244	24,58%	0,0249	11,74%	0,015	10,06%	0,014	8,13%	0,0166
Indicators										
dlva0										
1	0,7921	0,0237	0,828	0,0329	0,037	0,0256	0,0753	0,0499	0,6296	0,0674
2	0,1473	0,0156	0,1289	0,0191	0,0743	0,0255	0,112	0,0321	0,2045	0,0262
3	0,0502	0,011	0,0368	0,0131	0,2738	0,0355	0,3053	0,0374	0,1217	0,0328
4	0,0104	0,0055	0,0064	0,0046	0,6149	0,0648	0,5074	0,0767	0,0442	0,0251
Mean	1,279	0,041	1,2216	0,0529	3,4666	0,1333	3,2448	0,1997	1,5806	0,1417
vasl0										
Mean	6,3321	0,1174	7,5483	0,1304	5,2709	0,2347	7,1666	0,1571	5,3328	0,3984
vasb0										
0	0,7845	0,0341	0,0167	0,0211	0,5161	0,0591	0,0016	0,0023	0,0064	0,0082
1	0,2138	0,0331	0,5222	0,0465	0,4717	0,0551	0,2117	0,0562	0,3739	0,0782
2	0,0016	0,0023	0,4611	0,0497	0,0122	0,0157	0,7867	0,0572	0,6197	0,0805
Mean	0,2171	0,0352	1,4443	0,0606	0,4961	0,0666	1,7851	0,0583	1,6133	0,0835
tlep0										
1	0,1802	0,0182	0,1945	0,027	0,1753	0,0344	0,0318	0,0143	0,1258	0,038
2	0,3669	0,0175	0,3726	0,0193	0,3647	0,0223	0,2006	0,0371	0,3346	0,0323
3	0,4529	0,0247	0,4328	0,0368	0,4601	0,0499	0,7677	0,0507	0,5396	0,0671
Mean	2,2727	0,0397	2,2383	0,0616	2,2848	0,0827	2,7359	0,0646	2,4138	0,1041
tlda0										
1	0,9423	0,0149	0,9187	0,031	0,1339	0,0634	0,0679	0,044	0,8503	0,0744
2	0,0577	0,0149	0,0813	0,031	0,8661	0,0634	0,9321	0,044	0,1497	0,0744
fabq10										
0	0,1542	0,016	0,1606	0,0222	0,2124	0,0341	0,1554	0,0309	0,1658	0,0376
1	0,0718	0,0091	0,0739	0,0105	0,0893	0,0134	0,0722	0,0125	0,0755	0,0143
2	0,0452	0,0069	0,0459	0,0072	0,0508	0,008	0,0453	0,0076	0,0465	0,008

3	0,2749	0,0149	0,276	0,0151	0,2791	0,015	0,2751	0,0157	0,2768	0,0157
4	0,1091	0,0105	0,1082	0,0106	0,1001	0,0109	0,109	0,0111	0,1075	0,0115
5	0,1278	0,012	0,1253	0,0133	0,1059	0,0145	0,1273	0,016	0,1232	0,0177
6	0,217	0,018	0,2101	0,0239	0,1624	0,0278	0,2157	0,0339	0,2047	0,0389
Mean	3,3646	0,1089	3,3133	0,1615	2,9325	0,2264	3,3547	0,2369	3,2732	0,284
pain_dis										
0	0,9788	0,0111	0,5061	0,0476	0,8269	0,0465	0,2031	0,0528	0,0452	0,0455
1	0,0152	0,0098	0,3915	0,0454	0,1727	0,0464	0,6161	0,0594	0,7394	0,0658
2	0,0059	0,0046	0,1021	0,0224	0,0003	0,003	0,1493	0,0408	0,0004	0,0041
3	0	0,0002	0,0003	0,0037	0	0,0006	0,0316	0,0231	0,215	0,0599
domin_bp										
0	0,0029	0,003	0,0276	0,0182	0,0002	0,0014	0,2253	0,0505	0,6299	0,1089
1	0,9971	0,003	0,9724	0,0182	0,9998	0,0014	0,7747	0,0505	0,3701	0,1089
paraspin_debut										
0	0,3498	0,0272	0,3357	0,0427	0,3684	0,0575	0,5666	0,0615	0,5067	0,0803
1	0,6502	0,0272	0,6643	0,0427	0,6316	0,0575	0,4334	0,0615	0,4933	0,0803

Loadings, pain domain v.2, sum. score, 5-DP	Clusters	R ²	Loadings The quantities reported under Clusters are simply correlations, representing the square root of the corresponding 'R2' or communality of the associated indicator. Correlations: These are standardised values for the loadings reported in the Loadings output. They represent correlations between the indicators and factors.
dlva0	0,7871	0,6196	
vasl0	0,3803	0,1446	
vasb0	0,8111	0,6578	
tlep0	0,1956	0,0383	
tlda0	0,7825	0,6123	
fabq10	0,0656	0,0043	
pain_dis	0,6187	0,3828	
domin_bp	0,6399	0,4095	
paraspin_debut	0,1554	0,0242	

Profiles in numbers – pain domain v.2, 6-DP, sum.score

The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities

6-DP	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.	Cluster4	s.e.	Cluster5	s.e.	Cluster6	s.e.
Cluster Size	32,70%	0,0358	27,76%	0,0317	12,74%	0,0212	10,85%	0,0134	10,60%	0,0141	5,34%	0,0111
Indicators												
dlva0												
1	0,8458	0,0239	0,8057	0,0308	0,5814	0,052	0,0542	0,0292	0,1119	0,0435	0,6516	0,0706
2	0,1165	0,0151	0,1373	0,017	0,2047	0,0213	0,0849	0,0243	0,1274	0,0242	0,1913	0,0239
3	0,0312	0,0087	0,0455	0,0124	0,1404	0,0252	0,2586	0,0283	0,2824	0,03	0,1093	0,0318
4	0,0064	0,0031	0,0115	0,0057	0,0735	0,0223	0,6023	0,0656	0,4783	0,0642	0,0477	0,0243
Mean	1,1982	0,0368	1,263	0,0523	1,7061	0,1122	3,409	0,1432	3,1272	0,1668	1,5532	0,1466
vasl0												
Mean	7,2668	0,1627	7,448	0,1106	3,3946	0,233	5,4209	0,2215	7,1224	0,1579	5,4245	0,4437
vasb0												
0	0,837	0,0695	0,0345	0,0169	0,6567	0,0539	0,5046	0,0582	0,0027	0,0022	0,0049	0,0039
1	0,1614	0,0678	0,5394	0,0484	0,3346	0,051	0,473	0,0518	0,2062	0,0564	0,2649	0,0698
2	0,0016	0,0019	0,4261	0,0525	0,0086	0,0052	0,0224	0,013	0,7911	0,0581	0,7302	0,0728
Mean	0,1646	0,0712	1,3915	0,0611	0,3519	0,0571	0,5178	0,0666	1,7884	0,0599	1,7254	0,0759
tlep0												
1	0,1719	0,0215	0,194	0,025	0,1914	0,0351	0,176	0,0352	0,0297	0,0132	0,1325	0,0428
2	0,3639	0,0183	0,3733	0,0189	0,3723	0,021	0,3658	0,0226	0,1955	0,0361	0,3405	0,0339
3	0,4641	0,0304	0,4327	0,034	0,4362	0,048	0,4582	0,0509	0,7748	0,0487	0,527	0,0734
Mean	2,2922	0,0493	2,2387	0,0565	2,2448	0,0815	2,2822	0,0846	2,745	0,0616	2,3945	0,1153
tlda0												
1	0,9315	0,0187	0,9356	0,0282	0,988	0,0299	0,0096	0,0259	0,0715	0,0461	0,885	0,073
2	0,0685	0,0187	0,0644	0,0282	0,012	0,0299	0,9904	0,0259	0,9285	0,0461	0,115	0,073
fabq10												
0	0,1364	0,0183	0,1593	0,0206	0,2026	0,0341	0,2113	0,034	0,1546	0,03	0,1821	0,0457
1	0,066	0,0092	0,0736	0,0102	0,0868	0,0134	0,0892	0,0134	0,0721	0,0123	0,0807	0,0162

2	0,0431	0,0068	0,0459	0,0072	0,0502	0,008	0,0509	0,008	0,0454	0,0076	0,0483	0,0084
3	0,2715	0,0151	0,2767	0,0151	0,28	0,015	0,2799	0,0151	0,2758	0,0157	0,2794	0,0153
4	0,1115	0,0108	0,1086	0,0106	0,1019	0,011	0,1004	0,011	0,1092	0,0111	0,1052	0,0122
5	0,135	0,0133	0,1256	0,0129	0,1092	0,0149	0,1061	0,0145	0,1275	0,0157	0,1168	0,0195
6	0,2365	0,0226	0,2102	0,0225	0,1694	0,0291	0,1622	0,0277	0,2153	0,033	0,1875	0,0429
Mean	3,507	0,139	3,3193	0,1486	2,9968	0,2318	2,9358	0,2257	3,3568	0,2299	3,1452	0,3321
pain_dis												
0	0,9977	0,0067	0,5112	0,0587	0,8816	0,0381	0,8265	0,0465	0,1931	0,0516	0,0054	0,0157
1	0,0009	0,0045	0,3929	0,0515	0,1048	0,0361	0,1725	0,0449	0,6288	0,0585	0,7002	0,0731
2	0,0013	0,0046	0,0909	0,021	0,0136	0,0124	0,0009	0,011	0,1452	0,0402	0,0004	0,0052
3	0	0,0003	0,0051	0,006	0,0001	0,001	0	0,0006	0,0329	0,0229	0,294	0,0727
domin_bp												
0	0,0039	0,0044	0,0269	0,015	0,0002	0,0015	0,0002	0,0014	0,225	0,0505	0,9243	0,1152
1	0,9961	0,0044	0,9731	0,015	0,9998	0,0015	0,9998	0,0014	0,775	0,0505	0,0757	0,1152
paraspin_debut												
0	0,3291	0,0343	0,3529	0,0396	0,4036	0,0586	0,354	0,0567	0,5652	0,0602	0,5259	0,0873
1	0,6709	0,0343	0,6471	0,0396	0,5964	0,0586	0,646	0,0567	0,4348	0,0602	0,4741	0,0873

Loadings, pain domain v.2 Sum.score, 6-DP	Clusters	R ²	Loadings
dlva0	0,746	0,5565	<p>The quantities reported under Clusters are simply correlations, representing the square root of the corresponding 'R2' or communality of the associated indicator.</p> <p>Correlations: These are standardised values for the loadings reported in the Loadings output. They represent correlations between the indicators and factors.</p>
vasl0	0,6686	0,447	
vasb0	0,805	0,6479	
tlep0	0,2024	0,041	
tlda0	0,8499	0,7223	
fabq10	0,0997	0,0099	
pain_dis	0,5899	0,348	
domin_bp	0,7689	0,5911	
paraspin_debut	0,1587	0,0252	

Profiles in numbers – pain domain v.2, 7-DP, sum.score

The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities

7-DP	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.	Cluster4	s.e.	Cluster5	s.e.	Cluster6	s.e.	Cluster7	s.e.
Cluster Size	30,01%	0,0262	26,80%	0,0285	12,65%	0,0218	10,02%	0,0125	9,96%	0,013	6,22%	0,0153	4,34%	0,0104
Indicators														
dlva0														
1	0,8062	0,0283	0,8461	0,0254	0,599	0,0525	0,0346	0,023	0,0597	0,0365	0,887	0,0658	0,4123	0,086
2	0,1421	0,017	0,12	0,0167	0,2151	0,0247	0,0733	0,0253	0,1009	0,03	0,0938	0,045	0,2301	0,0248
3	0,0433	0,0117	0,0294	0,0091	0,1334	0,0262	0,2684	0,0328	0,2943	0,0326	0,0171	0,0181	0,2218	0,0443
4	0,0084	0,0045	0,0046	0,0026	0,0525	0,0187	0,6238	0,0656	0,545	0,0727	0,002	0,0033	0,1357	0,0535
Mean	1,2538	0,0463	1,1924	0,0378	1,6395	0,1052	3,4813	0,1312	3,3246	0,1688	1,1341	0,0901	2,081	0,2213
vasl0														
Mean	7,3099	0,1145	7,3941	0,173	3,5259	0,2586	5,4443	0,2263	7,1588	0,1472	7,8282	0,257	3,1772	0,3986
vasb0														
0	0,033	0,0476	0,9851	0,0421	0,7415	0,0613	0,533	0,061	0,0014	0,0022	0	0,0001	0,0174	0,0248
1	0,6712	0,0492	0,0149	0,0421	0,2566	0,0592	0,4584	0,0581	0,2248	0,0576	0,0294	0,0587	0,573	0,0908
2	0,2958	0,0463	0	0	0,0019	0,0034	0,0086	0,0128	0,7738	0,0584	0,9706	0,0588	0,4097	0,0939
Mean	1,2628	0,08	0,0149	0,0422	0,2604	0,0635	0,4755	0,0662	1,7724	0,0593	1,9706	0,0588	1,3923	0,1031
tlep0														
1	0,1994	0,0245	0,1771	0,0244	0,1865	0,0357	0,1812	0,0373	0,0342	0,0147	0,0748	0,0324	0,1513	0,0534
2	0,3757	0,0188	0,3669	0,019	0,3709	0,0216	0,3687	0,0227	0,2079	0,0366	0,2829	0,0445	0,3534	0,035
3	0,4249	0,0328	0,456	0,0342	0,4426	0,0495	0,4502	0,053	0,7579	0,0505	0,6424	0,0754	0,4953	0,0848
Mean	2,2255	0,0548	2,2789	0,0563	2,2561	0,0836	2,269	0,0888	2,7236	0,0648	2,5676	0,1072	2,3439	0,1373
tlda0														
1	0,9231	0,0232	0,9268	0,0196	0,9845	0,025	0,0099	0,0282	0,0789	0,0454	0,8441	0,0751	0,7984	0,0923
2	0,0769	0,0232	0,0732	0,0196	0,0155	0,025	0,9901	0,0282	0,9211	0,0454	0,1559	0,0751	0,2016	0,0923
fabq10														
0	0,1663	0,0202	0,1275	0,0182	0,2106	0,0366	0,2136	0,0359	0,157	0,031	0,1535	0,043	0,1465	0,047
1	0,076	0,0102	0,0629	0,0091	0,0891	0,014	0,09	0,0138	0,073	0,0126	0,0718	0,016	0,0695	0,0173
2	0,0468	0,0073	0,0419	0,0067	0,0509	0,0081	0,0511	0,0081	0,0458	0,0077	0,0453	0,0084	0,0445	0,0088
3	0,2782	0,0151	0,2692	0,0152	0,2803	0,0151	0,2802	0,0151	0,2767	0,0157	0,2761	0,0169	0,2746	0,018

4	0,1077	0,0105	0,1126	0,0109	0,1006	0,0112	0,1001	0,0111	0,109	0,0111	0,1095	0,0118	0,1104	0,012
5	0,1227	0,0125	0,1387	0,0136	0,1062	0,0154	0,1052	0,015	0,1264	0,016	0,1279	0,0201	0,1307	0,0219
6	0,2023	0,0212	0,2471	0,0238	0,1623	0,0301	0,1599	0,0288	0,2121	0,0336	0,2159	0,0475	0,2238	0,0541
Mean	3,2623	0,1413	3,5809	0,1434	2,9388	0,2461	2,9184	0,2377	3,3354	0,2365	3,3636	0,3384	3,4205	0,3789
pain_dis														
0	0,6392	0,0427	0,9942	0,0214	0,9534	0,0272	0,8629	0,0487	0,2093	0,0531	0,0398	0,0462	0,0494	0,0689
1	0,2918	0,037	0,0037	0,018	0,0343	0,0244	0,1368	0,0486	0,6107	0,0593	0,7484	0,0822	0,7277	0,0926
2	0,0659	0,0202	0,0021	0,0057	0,0123	0,0121	0,0002	0,0031	0,1506	0,0406	0,0948	0,065	0,0003	0,0037
3	0,0031	0,0045	0	0,0002	0	0,0005	0	0,0006	0,0294	0,0205	0,117	0,0538	0,2227	0,0793
domin_bp														
0	0,014	0,0099	0,004	0,0045	0,0002	0,0016	0,0001	0,0013	0,216	0,0479	0,5059	0,1198	0,5645	0,1163
1	0,986	0,0099	0,996	0,0045	0,9998	0,0016	0,9999	0,0013	0,784	0,0479	0,4941	0,1198	0,4355	0,1163
paraspin_debut														
0	0,3427	0,0354	0,3151	0,0346	0,3951	0,058	0,3469	0,059	0,5672	0,061	0,5465	0,097	0,4809	0,1041
1	0,6573	0,0354	0,6849	0,0346	0,6049	0,058	0,6531	0,059	0,4328	0,061	0,4535	0,097	0,5191	0,1041

Loadings, pain domain v.2 Sum.score, 7-DP	Clusters	R ²	Loadings
dlva0	0,7827	0,6126	<p>The quantities reported under Clusters are simply correlations, representing the square root of the corresponding 'R²' or communality of the associated indicator.</p> <p>Correlations: These are standardised values for the loadings reported in the Loadings output. They represent correlations between the indicators and factors.</p>
vasl0	0,7289	0,5313	
vasb0	0,8606	0,7407	
tlep0	0,2094	0,0438	
tlda0	0,8111	0,658	
fabq10	0,1129	0,0127	
pain_dis	0,6108	0,3731	
domin_bp	0,603	0,3636	
paraspin_debut	0,1761	0,031	

Activity domain – summary-score strategy

Profile-plots: Results with 2 to 7 domain profiles based on the following variables:

Rmprop	Sum-score representing the Roland Morris Disability Questionnaire. The higher score the more activity limitation
Fabq130	I cannot do my normal work with my present pain (disagree, don't know, agree)
facetsit	Best posture is to sit (1=yes)
facetwalk	Best activity is to walk (1=yes)

AMN's suggestion on final model: 5 domain profiles (clusters) – profile plot at page 5

Cluster 1: Moderate activity limitation, ok to work despite pain, prefer to walk

Cluster 2: Fairly high activity limitation, might be able to work, prefer to walk

Cluster 3: Low activity limitation, can work, prefer to walk

Cluster 4: Fairly high activity limitation, cannot work, prefer to walk

Cluster 5: Fairly high activity limitation, might be able to work, prefer to sit

Facts:

Lowest cluster size = 5.27 %

The seed used was based on the lowest BIC appearing 4 out of 10 rounds within the statistical analysis

AMN's suggestion on final model: 7-domain profiles (clusters)

Facts:

Lowest cluster size = 8.9%

The used seed was based on the BIC appearing most often (4/10) within the statistical analysis

Description of clusters – activity domain, summary-score strategy – 7-domain profiles

Bold text where the probability of the subgroup solution described is above 80% and 'rmprop s.e.' less than 5.00.

Cluster 1: High activity limitation, fully agree that cannot work with present pain, fully disagree on 'best posture is to sit' and agree on 'best activity is to walk'

Cluster 2: High activity limitation, fully disagree that cannot work with present pain, fully disagree on 'best posture is to sit' and agree on 'best activity is to walk'

Cluster 3: Moderate activity limitation, disagree that cannot work with present pain, don't know if 'best posture is to sit', agree on 'best activity is to walk' (a lot of variation within the profile, 'the garbage bag')

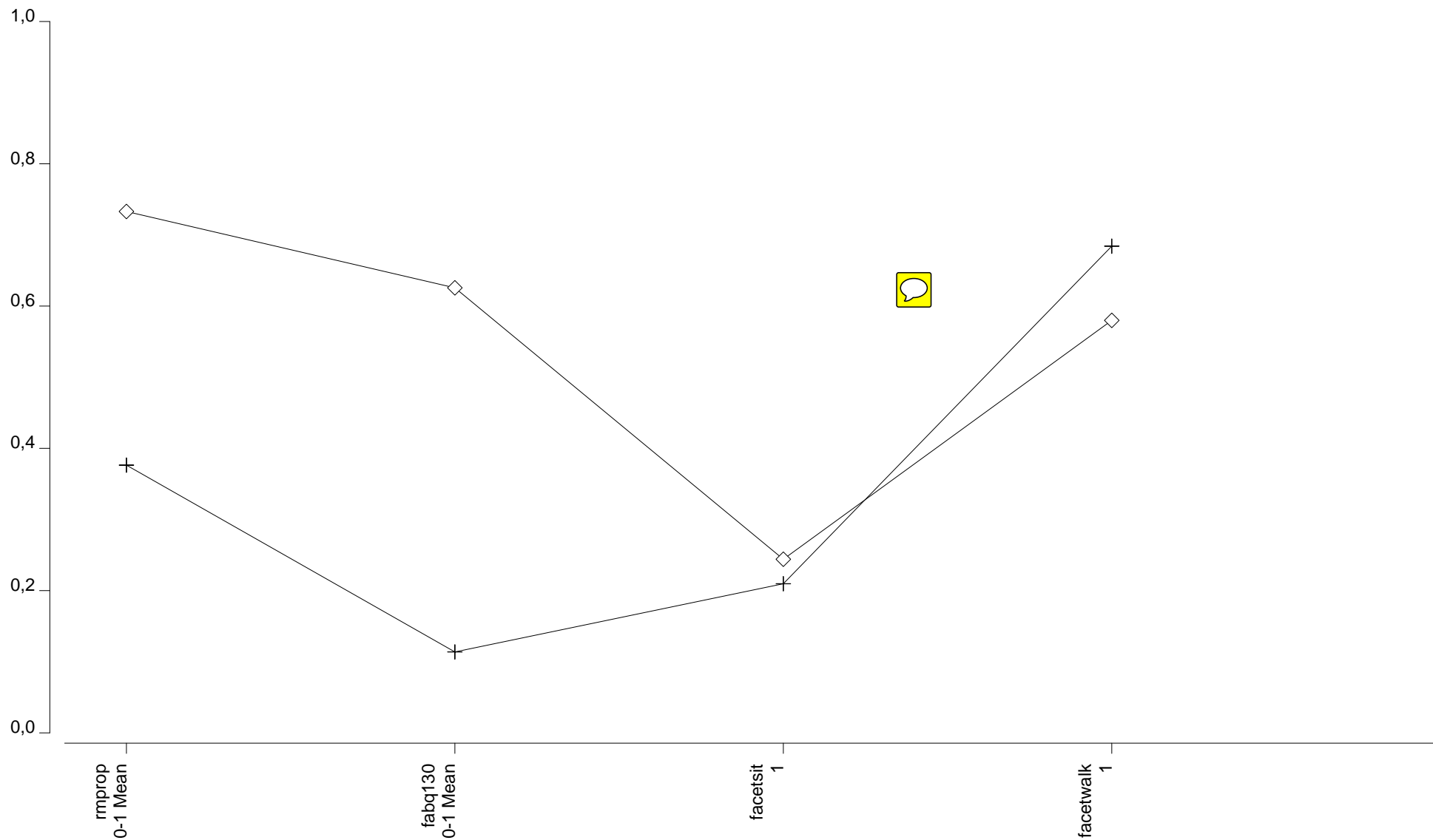
Cluster 4: Low activity limitation, fully disagree that cannot work with present pain, fully disagree on 'best posture is to sit', fully agree on 'best activity is to walk'

Cluster 5: Very low activity limitation, fully disagree that cannot work with present pain, disagree on 'best posture is to sit', fully agree on 'best activity is to walk'

Cluster 6: Low activity limitation, fully disagree that cannot work with present pain, fully disagree on 'best posture is to sit', fully disagree on 'best activity is to walk'

Cluster 7: High activity limitation, don't know if one cannot work with present pain, don't know if 'best posture is to sit' and fully disagree on 'best activity is to walk'

Activity domain, summary-score, 2-domain profiles



Cluster1 +
Cluster2 ◇

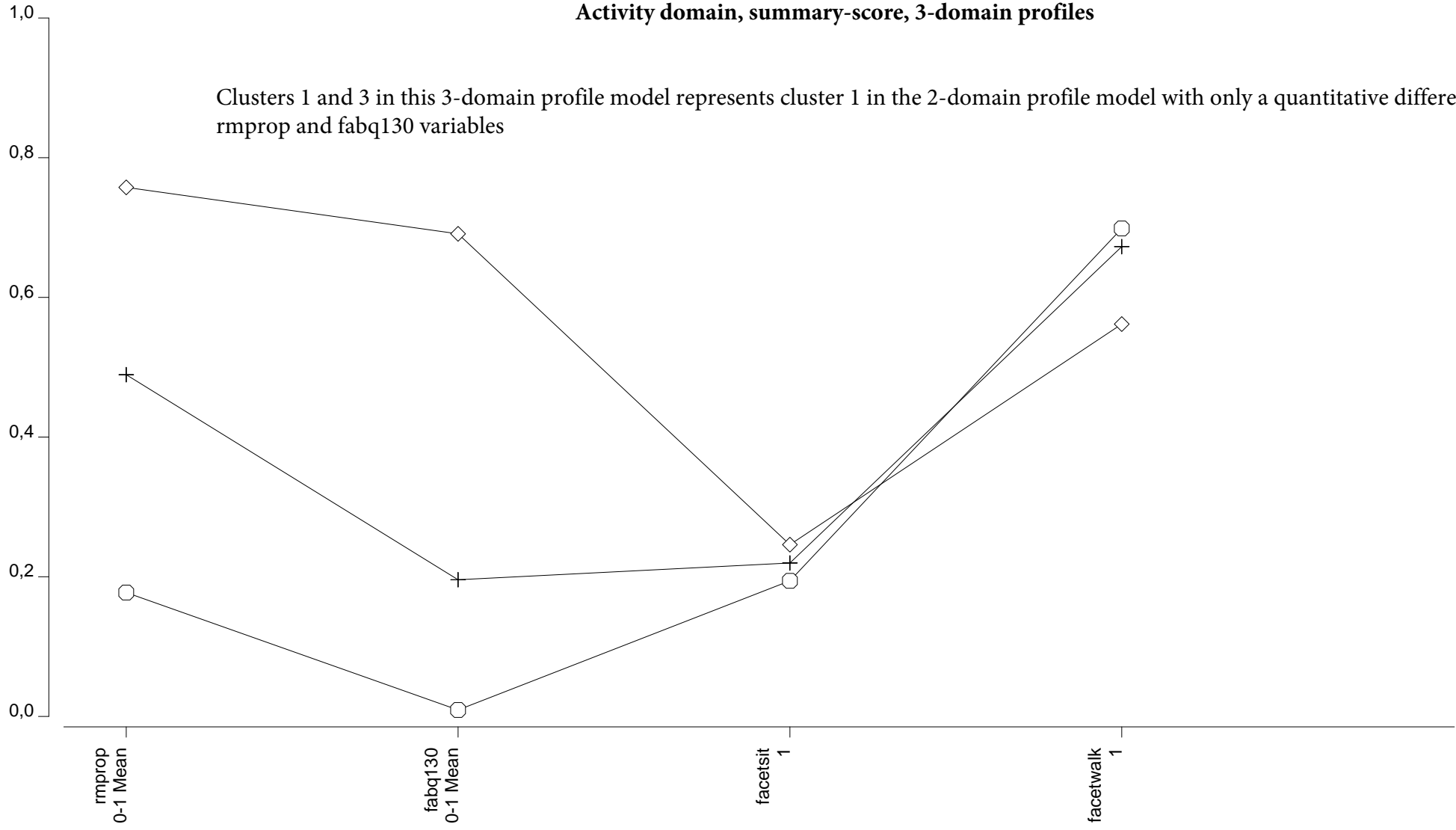
Cluster 1: Some activity limitation, can work despite pain

Cluster 2: Fairly high activity limitation, cannot work because of pain

Lowest cluster size = 39.26%

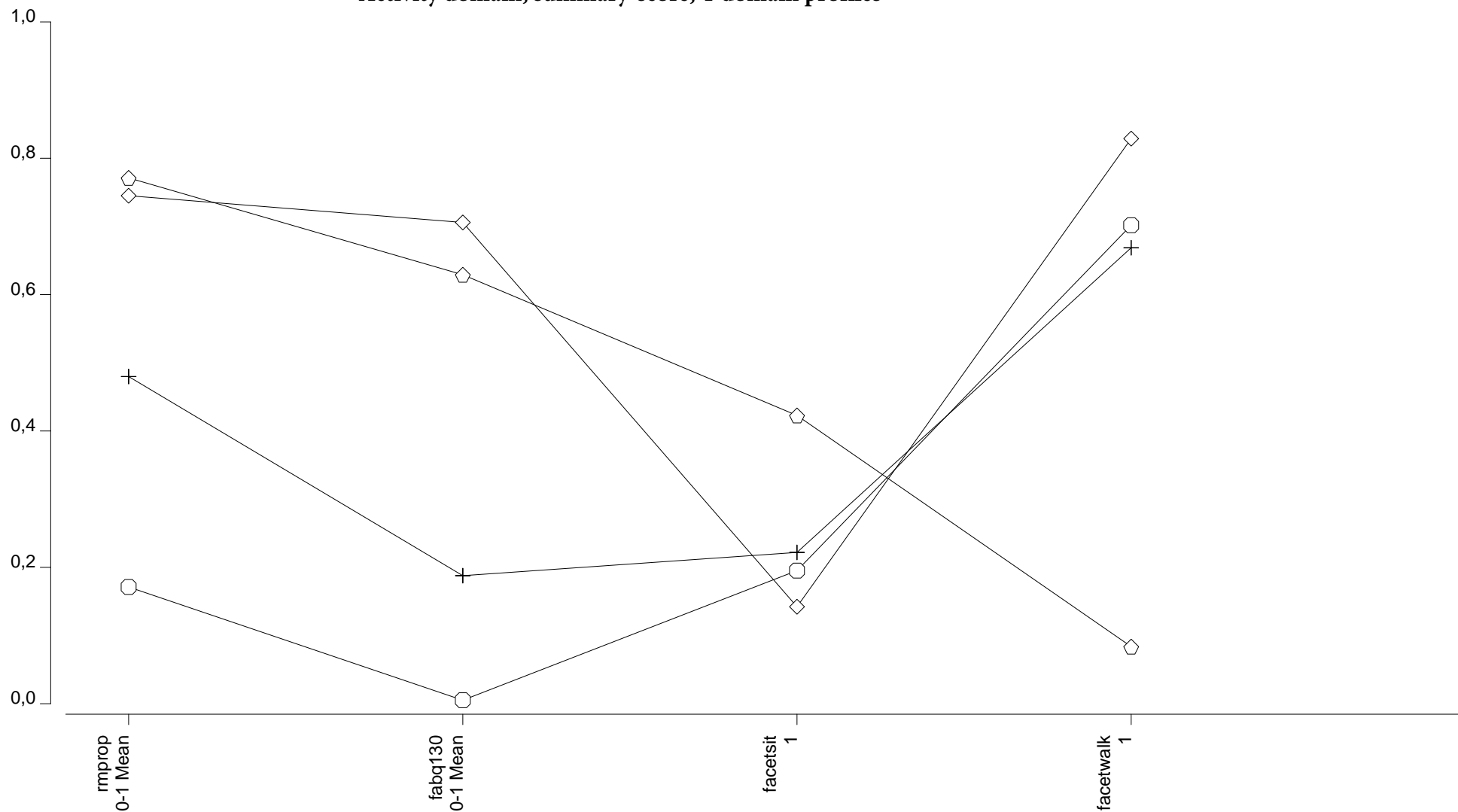
Activity domain, summary-score, 3-domain profiles

Clusters 1 and 3 in this 3-domain profile model represents cluster 1 in the 2-domain profile model with only a quantitative difference in the rmprop and fabq130 variables



Cluster1 +
Cluster2 ◇
Cluster3 ○ **Lowest cluster size = 17.84%**

Activity domain, summary-score, 4-domain profiles



Cluster1 +
Cluster2 ◇
Cluster3 ○
Cluster4 ◊

Cluster 1: Moderate activity limitation, ok to work despite pain, prefer to walk

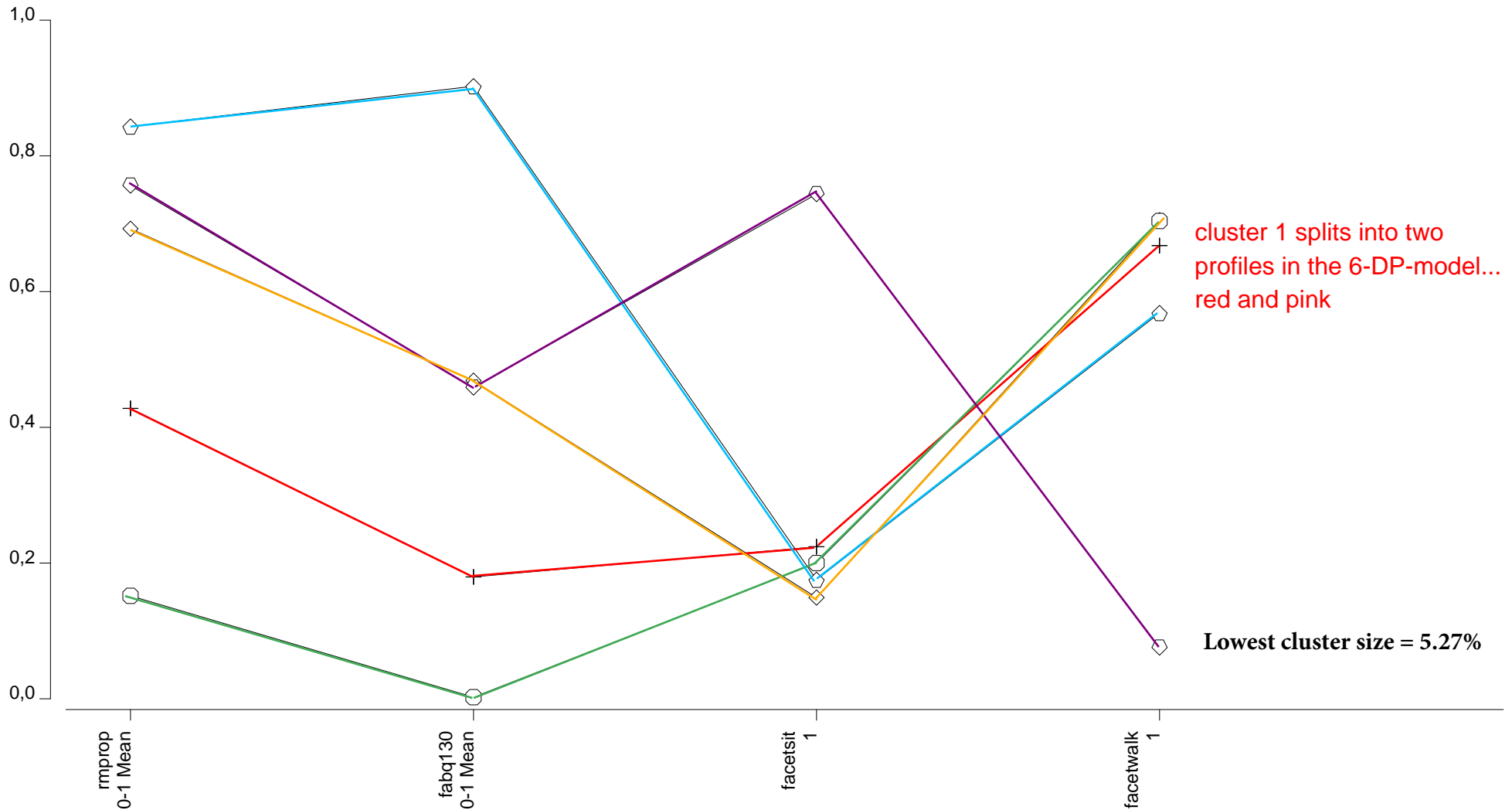
Cluster 2: fairly high activity limitation, cannot work, prefer to walk

Cluster 3: low activity limitation, can work, prefer to walk

Cluster 4: Fairly high activity limitation, cannot work, prefer to sit

Lowest cluster size = 11.12%

Activity domain, summary-score, 5-domain profiles



cluster 1 splits into two profiles in the 6-DP-model... red and pink

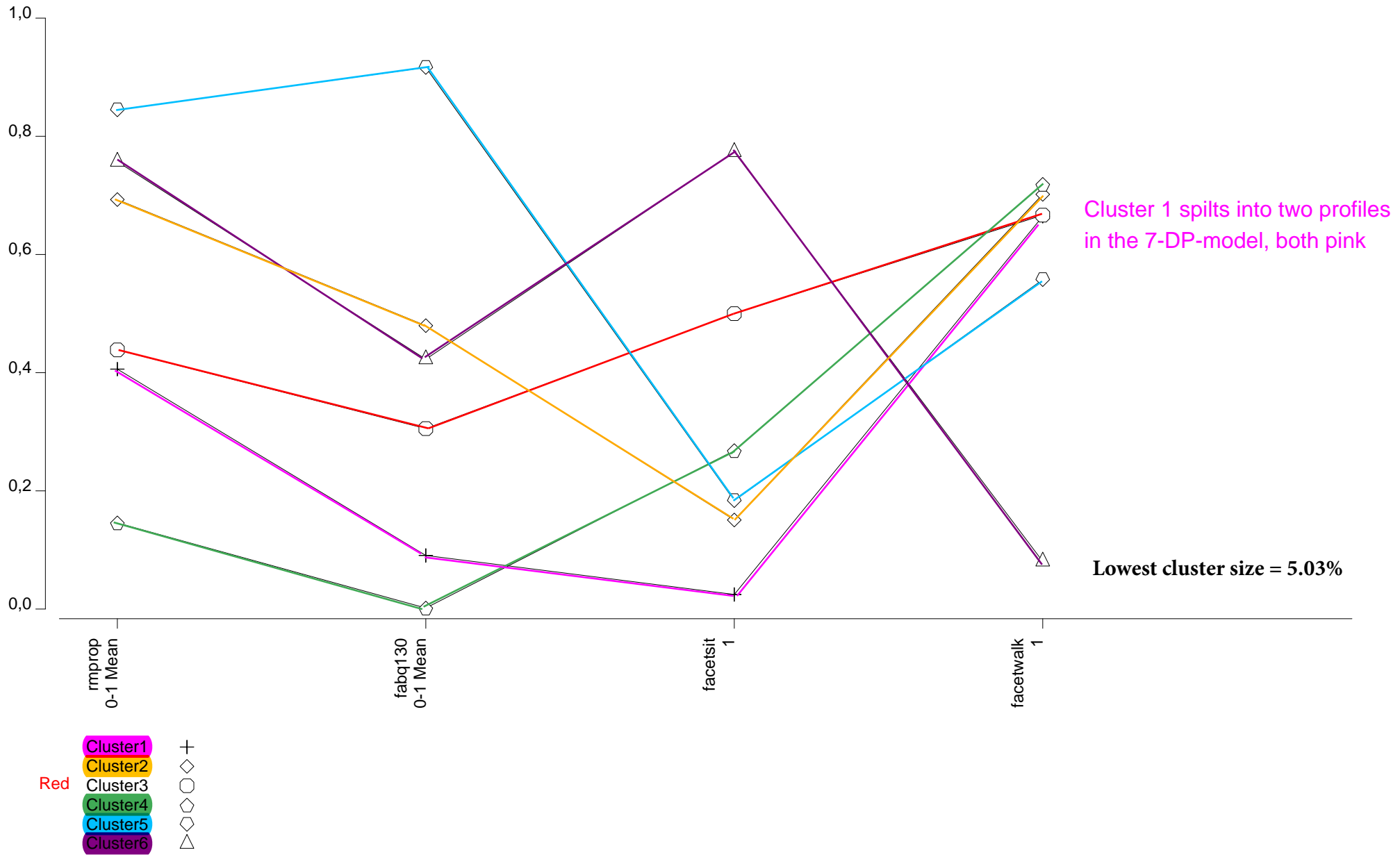
Lowest cluster size = 5.27%

- Cluster1 +
- Cluster2 ◇
- Cluster3 ○
- Cluster4 ◇
- Cluster5 ◇

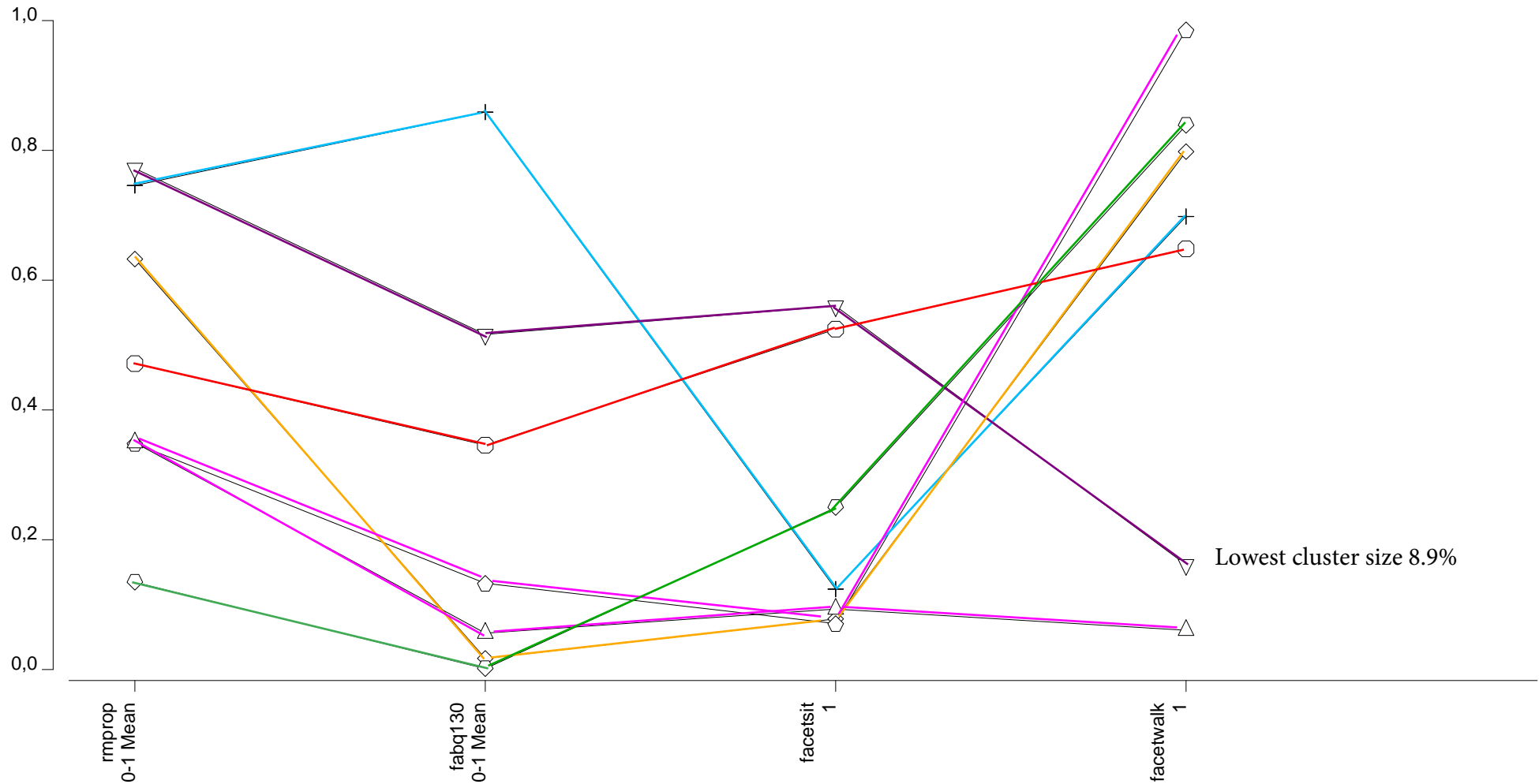
Cluster 4 within the 4-domain profiles model is represented within the cluster 2 and 5 in this 5-domain profile model. Cluster 5 which 'prefers to sit' becomes more distinct.

- Cluster 1: Moderate activity limitation, ok to work despite pain, prefer to walk
- Cluster 2: Fairly high activity limitation, might be able to work, prefer to walk
- Cluster 3: Low activity limitation, can work, prefer to walk
- Cluster 4: Fairly high activity limitation, cannot work, prefer to walk
- Cluster 5: Fairly high activity limitation, might be able to work, prefer to sit

Activity domain, summary-score, 6-domain profiles



Activity domain, summary-score strategy, 7-domain profiles



Lowest cluster size 8.9%

- Cluster1 + Cluster 1: High act. limitation, fully agree cannot work, fully disagree 'best posture is to sit', agree 'best activity is to walk'
- Cluster2 ◇ Cluster 2: High act. limitation, fully disagree cannot work, fully disagree 'best posture is to sit', agree 'best activity is to walk'
- Cluster3 ○ Cluster 3: 'The garbage bag': moderate act.limitation, don't know if cannot work and if 'best posture is to sit', agree 'best activity is to walk'
- Cluster4 ◇ Cluster 4: Low act. limitation, fully disagree cannot work, fully disagree 'best posture is to sit', fully agree 'best activity is to walk'
- Cluster5 △ Cluster 5: Very low act.limitation, fully disagree cannot work, fully disagree best posture to sit, fully agree on 'best activity is to walk'
- Cluster6 ▽ Cluster 6: Low act. limitation, fully disagree cannot work, fully disagree 'best posture is to sit', fully disagree 'best activity is to walk'
- Cluster7 ▽ Cluster 7: High act. limitation, don't know if cannot work or 'best posture to sit', fully disagree on 'best activity is to walk'

Larger models tend to have cluster sizes <5% and only differ quantitatively.

Profile in numbers - 5DP										
The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities										
Activity domain	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.	Cluster4	s.e.	Cluster5	s.e.
Sum.score, 5-DP										
Cluster Size	43,88%	0,0546	27,04%	0,0643	14,36%	0,0366	9,46%	0,0393	5,27%	0,0378
Indicators										
rmprop										
Mean	42,7726	3,2489	69,2562	2,0546	15,1677	2,6993	84,308	2,6557	75,622	3,6873
fabq130										
0	0,7828	0,0335	0,4804	0,0843	0,9959	0,0132	0,0694	0,0984	0,4906	0,156
1	0,0756	0,0113	0,1018	0,0136	0,0038	0,0115	0,056	0,0344	0,1016	0,0135
2	0,1416	0,0277	0,4178	0,0823	0,0003	0,0017	0,8746	0,1321	0,4078	0,154
Mean	0,3588	0,0604	0,9374	0,166	0,0044	0,0149	1,8052	0,2304	0,9173	0,3096
facetsit										
0	0,7761	0,0274	0,8509	0,0493	0,8001	0,0457	0,8247	0,0874	0,2564	0,3689
1	0,2239	0,0274	0,1491	0,0493	0,1999	0,0457	0,1753	0,0874	0,7436	0,3689
facetwalk										
0	0,3323	0,0313	0,2949	0,0779	0,2961	0,0524	0,4317	0,1045	0,9246	0,1808
1	0,6677	0,0313	0,7051	0,0779	0,7039	0,0524	0,5683	0,1045	0,0754	0,1808

Loadings - 5DP	Clusters	R ²
Act. domain, sum. score		
rmprop	0,8782	0,7713
fabq130	0,5608	0,3145
facetsit	0,3042	0,0926
facetwalk	0,2901	0,0842

Loadings

The quantities reported under Clusters are simply correlations, representing the square root of the corresponding 'R²' or communality of the associated indicator.

Correlations: These are standardised values for the loadings reported in the Loadings output. They represent correlations between the indicators and factors.

Profile in numbers - 6-DP												
The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities.												
Profile in numbers, 6-DP Activity domain, sum.score	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.	Cluster4	s.e.	Cluster5	s.e.	Cluster6	s.e.
Cluster Size	29,01%	0,1038	27,30%	0,0633	17,06%	0,0966	12,31%	0,0369	9,29%	0,0377	5,03%	0,0347
Indicators												
rmprop												
Mean	40,5903	5,1765	69,2903	2,0155	43,8455	3,3233	14,5804	2,6022	84,4772	2,5699	75,6924	3,5147
fabq130												
0	0,8817	0,068	0,4677	0,0922	0,6466	0,1025	0,9968	0,0105	0,0569	0,0931	0,5252	0,1661
1	0,0556	0,0196	0,1057	0,0149	0,0964	0,0176	0,003	0,0095	0,0533	0,0382	0,1044	0,0151
2	0,0627	0,0497	0,4266	0,0894	0,257	0,0909	0,0002	0,001	0,8898	0,1307	0,3704	0,1617
Mean	0,181	0,1175	0,9589	0,181	0,6104	0,193	0,0034	0,0116	1,8329	0,2236	0,8452	0,3274
facetsit												
0	0,9755	0,1218	0,8494	0,0608	0,5002	0,201	0,7319	0,0728	0,8167	0,0867	0,2266	0,3527
1	0,0245	0,1218	0,1506	0,0608	0,4998	0,201	0,2681	0,0728	0,1833	0,0867	0,7734	0,3527
facetwalk												
0	0,3354	0,0535	0,2983	0,0711	0,3335	0,0721	0,2814	0,064	0,4427	0,1027	0,9195	0,1946
1	0,6646	0,0535	0,7017	0,0711	0,6665	0,0721	0,7186	0,064	0,5573	0,1027	0,0805	0,1946

Loadings, 6-DP Act. domain, sum. score	Clusters	R ²
rmprop	0,8666	0,751
fabq130	0,5872	0,3448
facetsit	0,4903	0,2404
facetwalk	0,2835	0,0804

Loadings

The quantities reported under Clusters are simply correlations, representing the square root of the corresponding 'R²' or communality of the associated indicator.

Correlations: These are standardised values for the loadings reported in the Loadings output. They represent correlations between the indicators and factors.

Profile in numbers - 7-DP														
The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities.														
Profile in numbers, 7-DP, Activity domain, sum.score	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.	Cluster4	s.e.	Cluster5	s.e.	Cluster6	s.e.	Cluster7	s.e.
Cluster Size	21,73%	0,0624	17,02%	0,0718	16,03%	0,1157	13,58%	0,0588	11,41%	0,0599	11,33%	0,0478	8,90%	0,0605
Indicators														
rmprop														
Mean	74,5775	2,8788	63,2459	2,6206	47,1248	7,6887	34,8333	4,6485	13,427	3,6839	34,9585	12,3164	77,2131	2,6453
fabq130														
0	0,0978	0,0872	0,9715	0,0828	0,5916	0,2125	0,8252	0,1519	0,9975	0,0087	0,9185	0,0774	0,4171	0,1604
1	0,0868	0,0319	0,0228	0,0545	0,1257	0,0361	0,0841	0,042	0,0024	0,0083	0,0512	0,0336	0,1331	0,0261
2	0,8154	0,1153	0,0057	0,0284	0,2827	0,1844	0,0907	0,1126	0,0001	0,0004	0,0303	0,0448	0,4498	0,1662
Mean	1,7175	0,2019	0,0342	0,1111	0,6911	0,3963	0,2655	0,2641	0,0026	0,0092	0,1118	0,122	1,0327	0,3256
facetsit														
0	0,8761	0,0666	0,9221	0,1219	0,4757	0,3933	0,9292	0,1509	0,7505	0,0619	0,907	0,2127	0,44	0,2632
1	0,1239	0,0666	0,0779	0,1219	0,5243	0,3933	0,0708	0,1509	0,2495	0,0619	0,093	0,2127	0,56	0,2632
facetwalk														
0	0,3021	0,1223	0,2021	0,1526	0,3519	0,1688	0,0143	0,0606	0,1616	0,1965	0,9396	0,204	0,8386	0,2028
1	0,6979	0,1223	0,7979	0,1526	0,6481	0,1688	0,9857	0,0606	0,8384	0,1965	0,0604	0,204	0,1614	0,2028

Loadings – 7-DP Act. domain, sum. score	Clusters	R²
rmprop	0,8729	0,7619
fabq130	0,7335	0,5381
facetsit	0,453	0,2052
facetwalk	0,6051	0,3661

Loadings

The quantities reported under Clusters are simply correlations, representing the square root of the corresponding 'R²' or communality of the associated indicator.

Correlations: These are standardized values for the loadings reported in the Loadings output. They represent correlations between the indicators and factors.

Participation domain – summary-score strategy

Profile-plots: Results with 2 to 8 domain profiles based on the following variables:

Bfbe0	Physical load at work: 1=sitting, 2=sitting and walking, 3=light physical load, 4=heavy physical load
Dlsy0	Days with sick leave the last month (0, 1-5, 6-31)
Fabqw	Sum-score representing the following items from the Fear Avoidance Beliefs Questionnaire: 6,7,9,10,11,12,15 FABQ6: My pain was caused by my work or by an accident at work (0=disagree, 1=don't know, 2=agree) FABQ7: My work aggravated my pain (0=disagree, 1=don't know, 2=agree) FABQ9: My work is too heavy for me (0=disagree, 1=don't know, 2=agree) FABQ10: My work makes or would make my pain worse (0=disagree, 1=don't know, 2=agree) FABQ11: My work might harm my back (0=disagree, 3= don't know, 6=agree) FABQ12: I should not do my normal work with my present pain (0=disagree, 3= don't know, 6=agree) FABQ15: I do not think that I will be back to my normal work within 3 months (0=disagree, 3= don't know, 6=agree)

AMN's suggestion on final model: 5 domain profiles (clusters)

Cluster 1: Low physical work load (Sitting and walking at work) and very few fear avoidance beliefs in relation to work

Cluster 2: Moderate physical work load (sitting, walking and light physical load) and few fear avoidance beliefs in relation to work

Cluster 3: High physical work load (sits, walks and often light-heavy physical work load) and moderate fear avoidance beliefs in relation to work

Cluster 4: Very high physical work load (often heavy physical work load) and high fear avoidance beliefs in relation to work

Cluster 5: Very low physical work load (sitting) and few fear avoidance beliefs

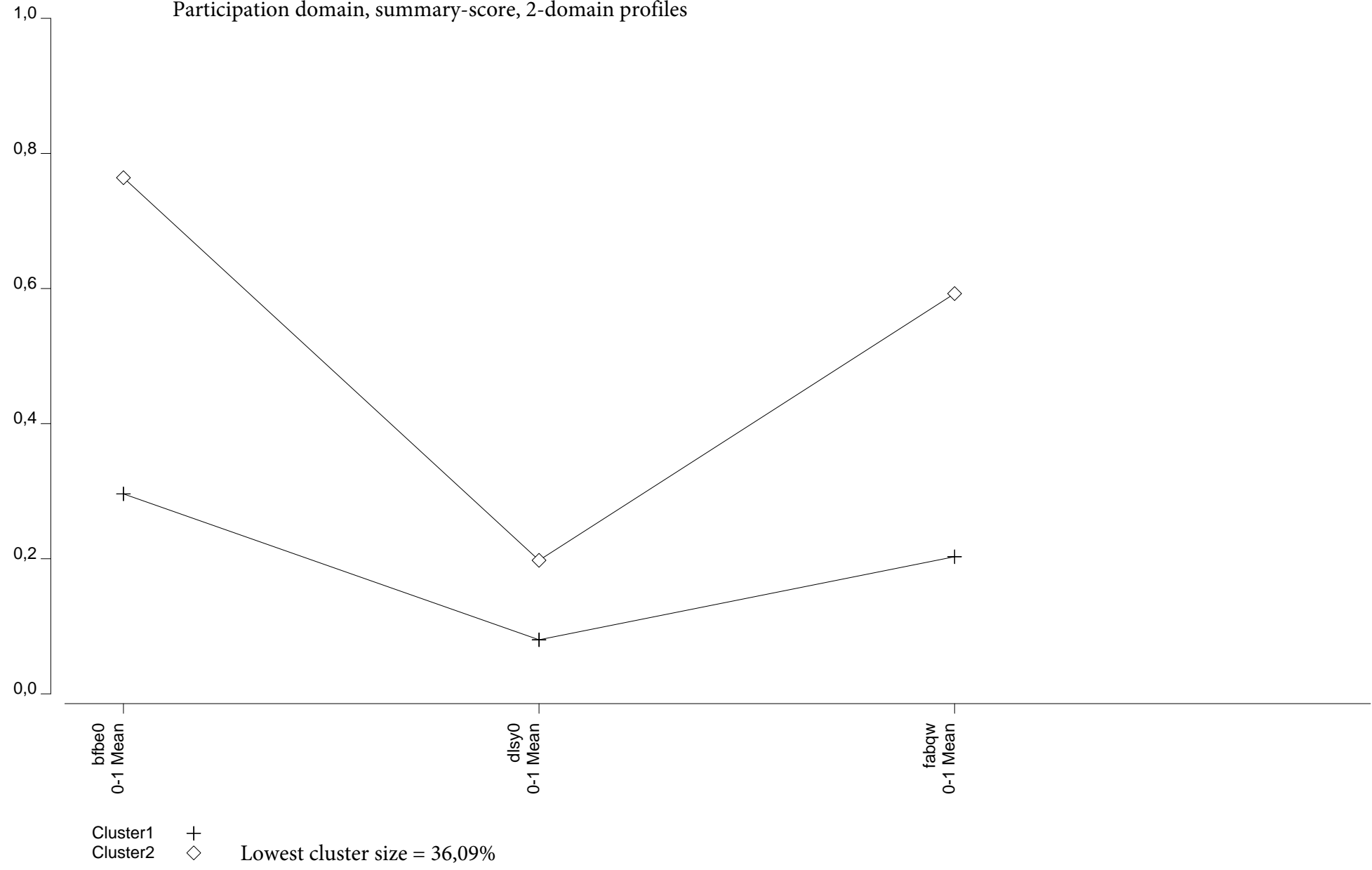
Facts:

Lowest cluster size = 10.35%

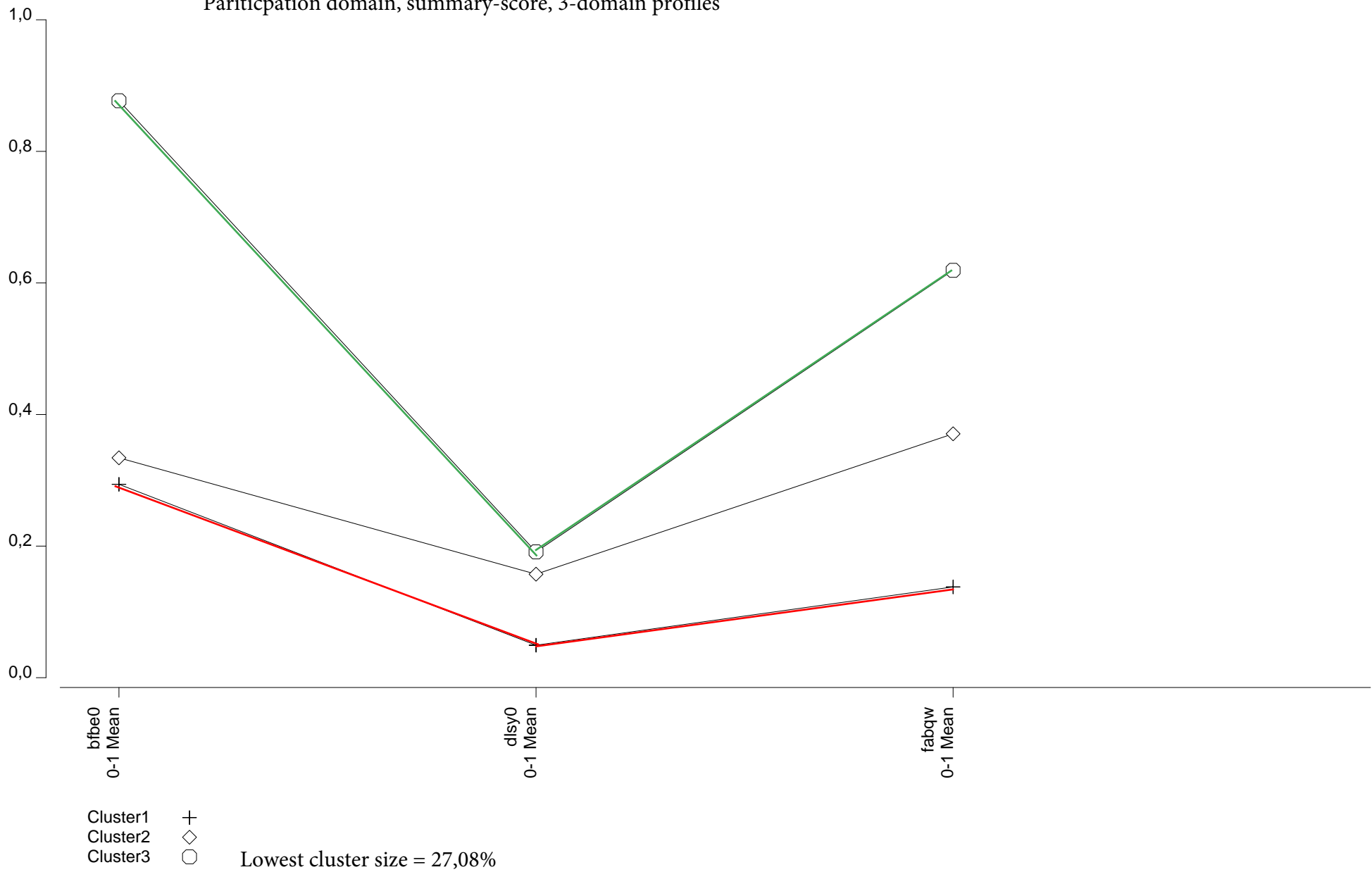
BIC was the same each time in 7 out of 10 rounds

Adding more clusters does not seem to change the 'quantitative presentation' – the more heavy workload the higher fear avoidance beliefs

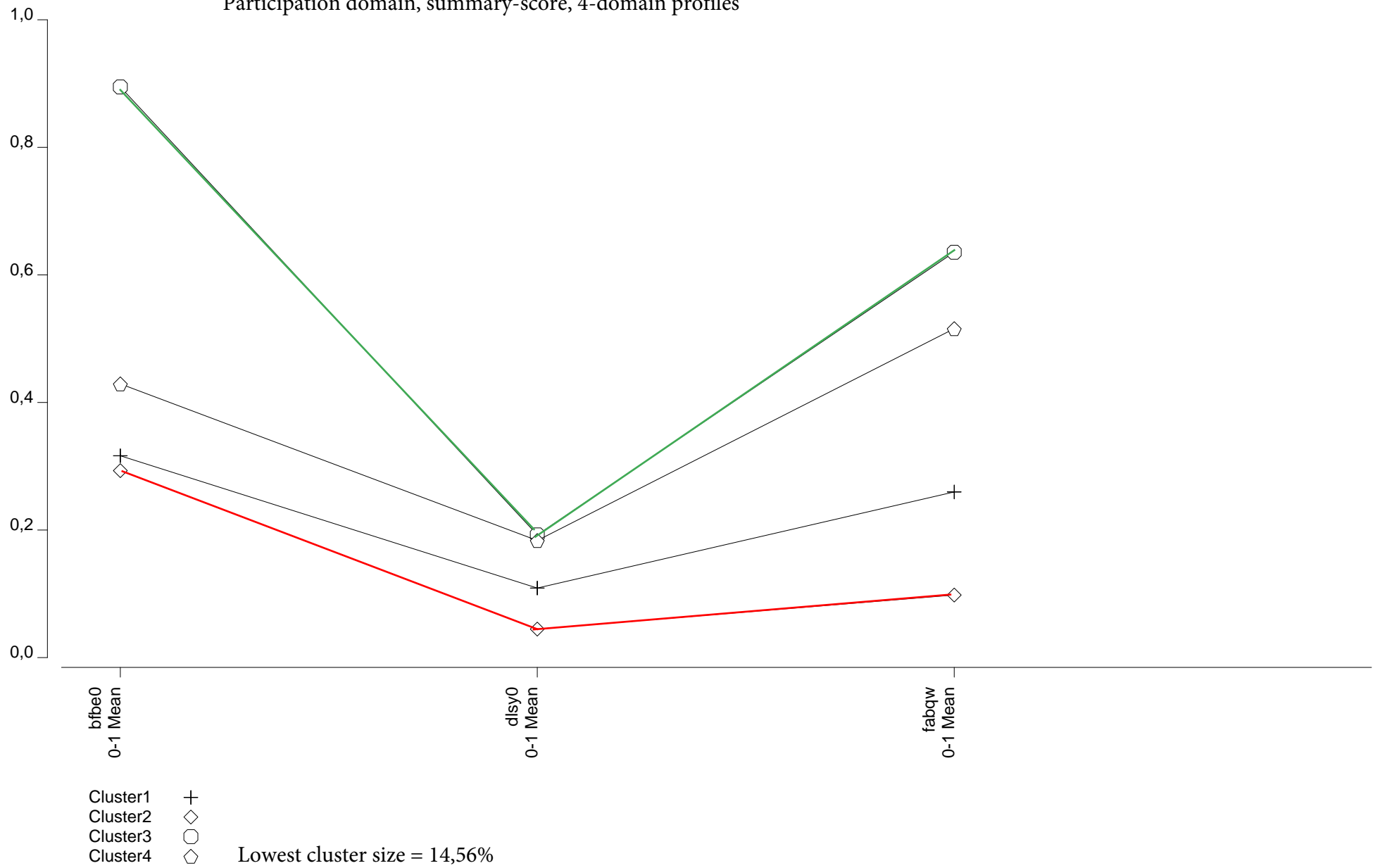
Participation domain, summary-score, 2-domain profiles



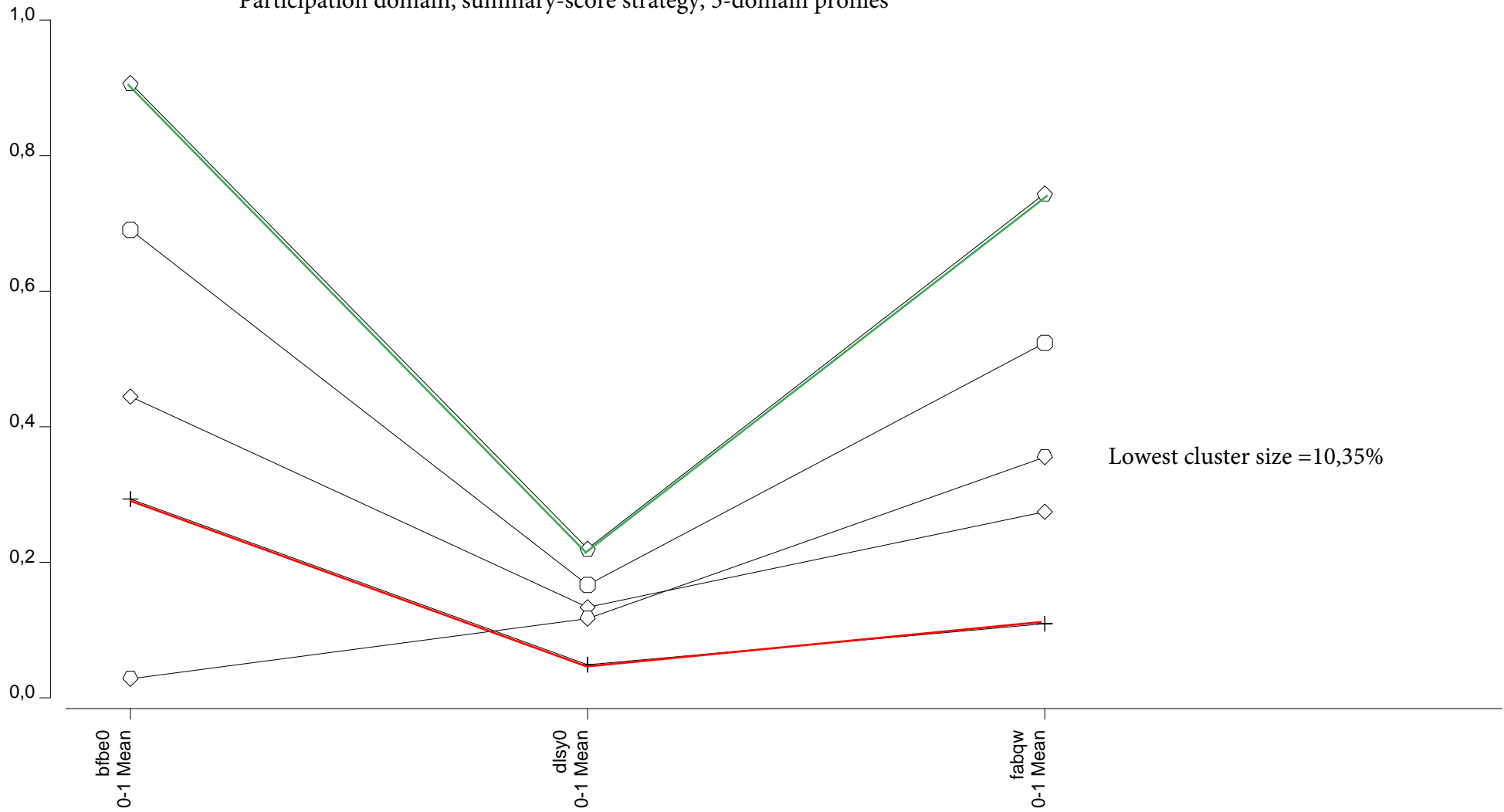
Participation domain, summary-score, 3-domain profiles



Participation domain, summary-score, 4-domain profiles



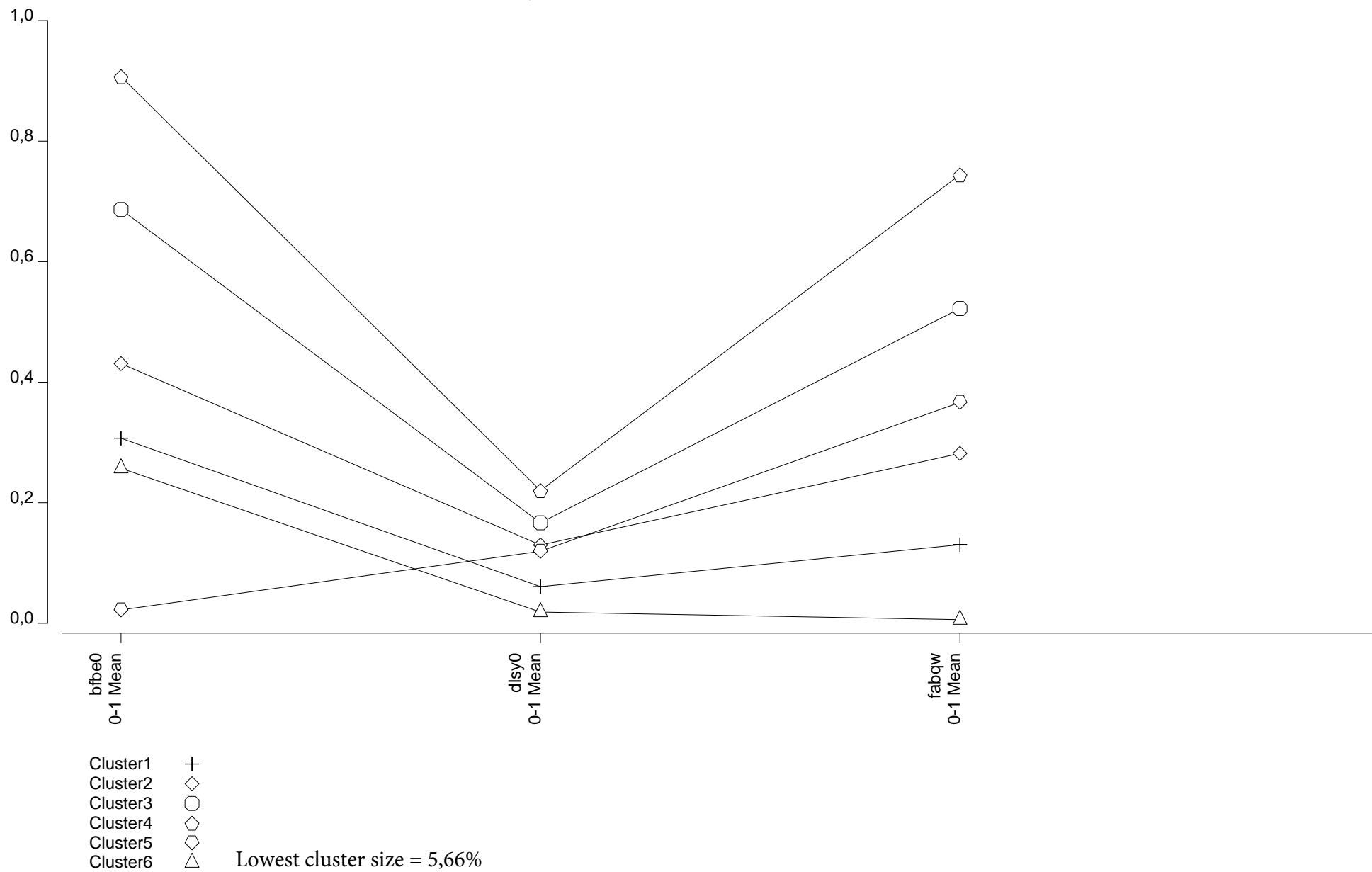
Participation domain, summary-score strategy, 5-domain profiles



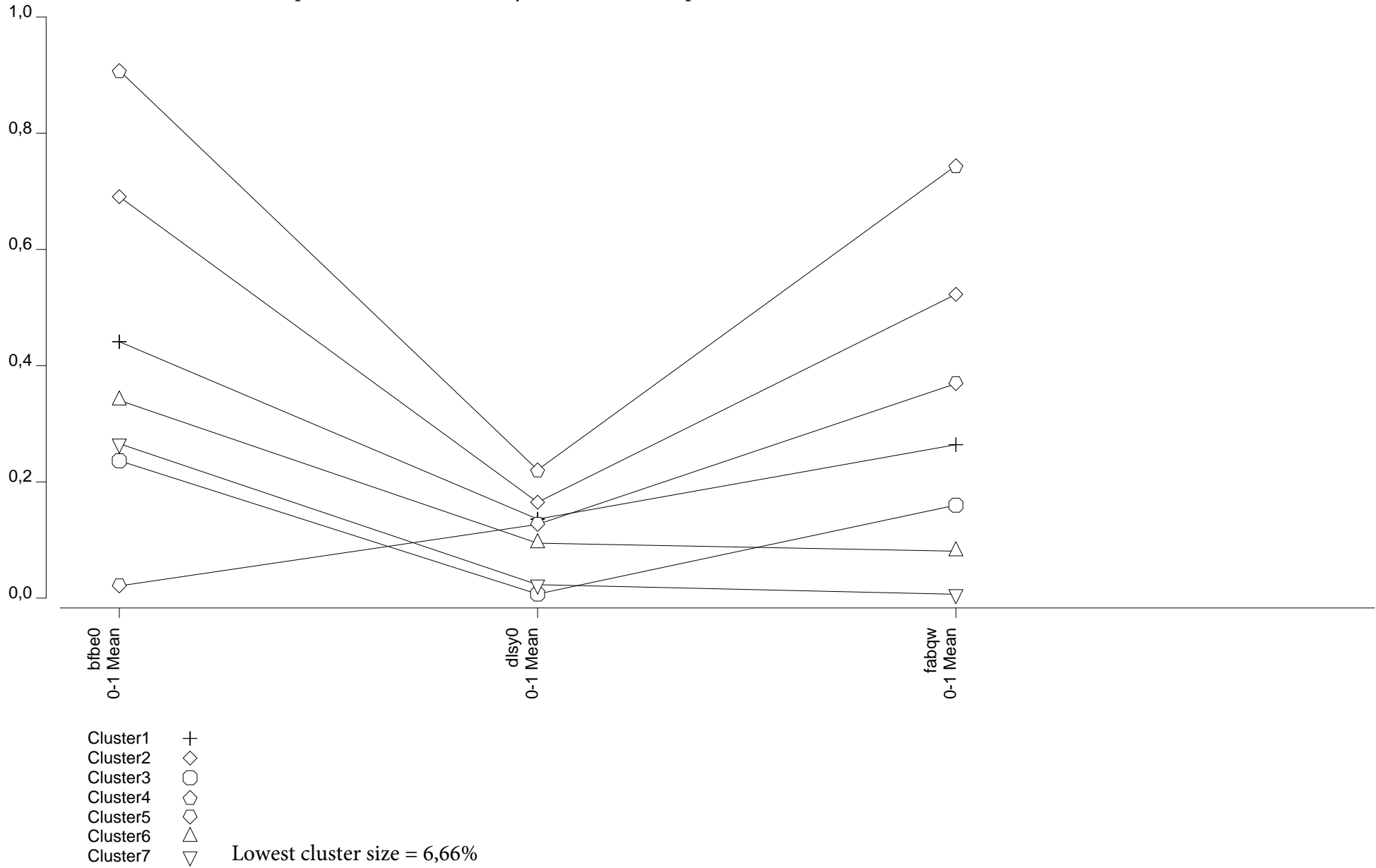
Lowest cluster size = 10,35%

- Cluster1 + Cluster 1: Low physical work load (Sitting and walking at work) and very few fear avoidance beliefs in relation to work
- Cluster2 ◇ Cluster 2: Moderate physical work load (sitting, walking and light physical load) and few fear avoidance beliefs in relation to work
- Cluster3 ○ Cluster 3: High physical work load (sits, walks and often light-heavy physical work load) and moderate fear avoidance beliefs in relation to work
- Cluster4 ◇ Cluster 4: Very high physical work load (often heavy physical work load) and high fear avoidance beliefs in relation to work
- Cluster5 ◇ Cluster 5: Very low physical work load (sitting) and few fear avoidance beliefs

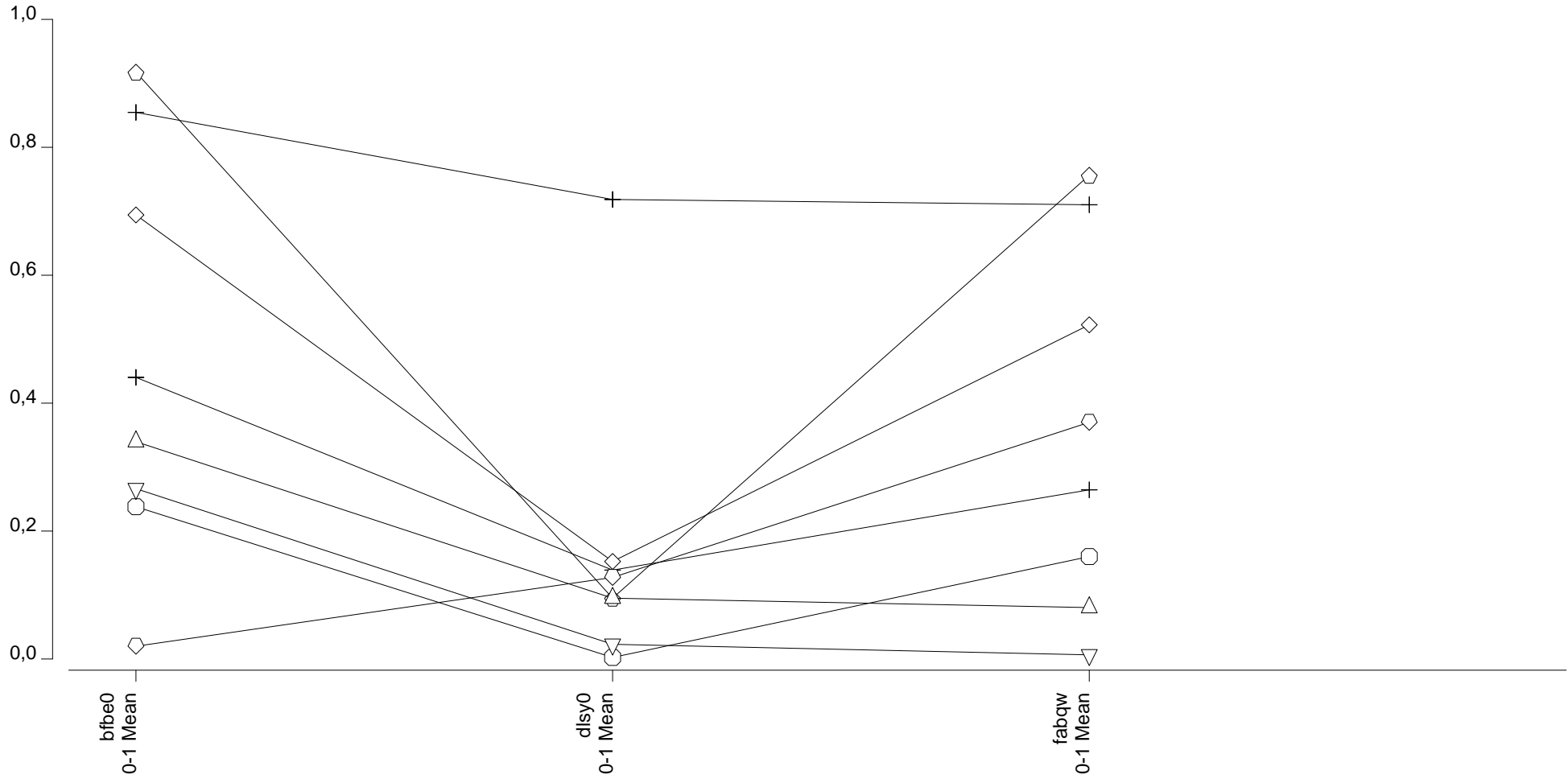
Participation domain, summary-score, 6-domain profiles



Participation domain, summary-score, 7-domain profiles



Participation domain, summary-score, 8-domain profiles



Cluster1 +
 Cluster2 ◇
 Cluster3 ○
 Cluster4 ◇
 Cluster5 ◇
 Cluster6 △
 Cluster7 ▽
 Cluster8 + Lowest cluster size = 3,07%

Profile in numbers – 3-DP

The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities.

Part.domain, 3-DP sum.score	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.
Cluster Size	40,69%	0,0554	32,23%	0,0607	27,08%	0,0341
Indicators						
bfbe0						
1	0,3489	0,0309	0,2932	0,0539	0,0027	0,002
2	0,4516	0,0244	0,4565	0,0245	0,0494	0,0215
3	0,1686	0,0194	0,205	0,0421	0,2625	0,0392
4	0,0309	0,0102	0,0452	0,0267	0,6854	0,056
Mean	1,8816	0,0543	2,0023	0,1418	3,6307	0,0781
dlsy0						
0	0,9049	0,024	0,7171	0,0377	0,6636	0,0336
1	0,0917	0,0223	0,2512	0,0311	0,2905	0,0277
2	0,0033	0,002	0,0317	0,0101	0,0458	0,0121
Mean	0,0984	0,0258	0,3146	0,0456	0,3822	0,0421
fabqw						
Mean	5,2362	0,4387	14,0861	1,1816	23,5269	0,9296

Loadings - 3-DP, sum.score	Clusters	R²
Part.domain		
bfbe0	0,7078	0,501
dlsy0	0,2571	0,0661
fabqw	0,8224	0,6763

Loadings

The quantities reported under Clusters are simply correlations, representing the square root of the corresponding 'R²' or communality of the associated indicator.

Correlations: These are standardised values for the loadings reported in the Loadings output. They represent correlations between the indicators and factors.

Profile in numbers – 4-DP								
The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities.								
Part.domain, 4-DP, Sum.score	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.	Cluster4	s.e.
Cluster Size	34,67%	0,0806	26,87%	0,0857	23,90%	0,0426	14,56%	0,0487
Indicators								
bfbe0								
1	0,3241	0,0365	0,3569	0,0376	0,0021	0,0018	0,1955	0,0837
2	0,4455	0,0227	0,4415	0,0241	0,0397	0,0192	0,4231	0,0571
3	0,1874	0,0249	0,1672	0,0238	0,2303	0,0439	0,2804	0,063
4	0,0429	0,0209	0,0344	0,0125	0,7279	0,0592	0,1011	0,0792
Mean	1,9491	0,0915	1,8792	0,0698	3,6841	0,0786	2,287	0,2961
dlsy0								
0	0,7983	0,0421	0,9135	0,0288	0,6628	0,0375	0,6763	0,0556
1	0,1856	0,0357	0,0836	0,0269	0,2899	0,03	0,2803	0,0422
2	0,0161	0,0076	0,0029	0,0021	0,0473	0,0133	0,0434	0,017
Mean	0,2178	0,0489	0,0893	0,0308	0,3845	0,0477	0,367	0,0707
fabqw								
Mean	9,8628	1,3748	3,7213	0,7237	24,1428	1,2046	19,5955	1,4739

Loadings - 4DP, part.domain, sum.score	Clusters	R ²
bfbe0	0,6881	0,4735
dlsy0	0,2416	0,0583
fabqw	0,878	0,7708

Loadings

The quantities reported under Clusters are simply correlations, representing the square root of the corresponding 'R²' or communality of the associated indicator.

Correlations: These are standardised values for the loadings reported in the Loadings output. They represent correlations between the indicators and factors.

Profile in numbers – 5-DP										
The first row of numbers shows how large each cluster is. The body of the table contains (marginal) conditional probabilities that show how the clusters are related to the Nominal or Ordinal indicator variables. These probabilities sum to 1 within each cluster (column). For indicators specified as Continuous, the body of the table contains means instead of probabilities. For indicators specified as Ordinal, means are displayed in addition to the conditional probabilities.										
Part.domain, 5-DP Sum.score	Cluster1	s.e.	Cluster2	s.e.	Cluster3	s.e.	Cluster4	s.e.	Cluster5	s.e.
Cluster Size	32,55%	0,0593	23,00%	0,0592	20,82%	0,0358	13,28%	0,0293	10,35%	0,0364
Indicators										
bfbe0										
1	0,3156	0,0424	0,1454	0,0615	0,0283	0,0132	0,0012	0,001	0,917	0,1389
2	0,5171	0,0406	0,4832	0,0351	0,2461	0,0464	0,0383	0,0177	0,0818	0,1346
3	0,1393	0,0222	0,2641	0,0456	0,3517	0,0268	0,1982	0,0361	0,0012	0,0042
4	0,0279	0,0103	0,1073	0,0387	0,3739	0,0612	0,7623	0,0529	0	0,0001
Mean	1,8796	0,0689	2,3332	0,1743	3,0711	0,1258	3,7215	0,0715	1,0842	0,1432
dlsy0										
0	0,9057	0,0233	0,7567	0,0458	0,7029	0,0425	0,6207	0,0547	0,7847	0,0583
1	0,0909	0,0216	0,2196	0,0377	0,261	0,0334	0,3185	0,04	0,1969	0,0484
2	0,0034	0,0019	0,0237	0,0101	0,0361	0,0126	0,0608	0,0203	0,0184	0,0109
Mean	0,0977	0,0251	0,2671	0,0546	0,3331	0,053	0,4401	0,0721	0,2337	0,0684
fabqw										
Mean	4,1511	0,5368	10,43	0,9475	19,899	0,6332	28,2757	1,2886	13,4952	1,5327

Loadings - 5-DP Part.domain, sum.score	Clusters	R ²
bfbe0	0,7223	0,5217
dlsy0	0,2438	0,0594
fabqw	0,9139	0,8352

Loadings

The quantities reported under Clusters are simply correlations, representing the square root of the corresponding 'R²' or communality of the associated indicator.

Correlations: These are standardised values for the loadings reported in the Loadings output. They represent correlations between the indicators and factors.