IRIS

=== Top 10 by Silhouette (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

62 0.202894 0.9 2 0.57841 0.666705 0.306987

53 0.154190 0.9 2 0.57841 0.666705 0.306987

45 0.154190 0.1 2 0.57841 0.666705 0.306987

46 0.154190 0.2 2 0.57841 0.666705 0.306987

47 0.154190 0.3 2 0.57841 0.666705 0.306987

49 0.154190 0.5 2 0.57841 0.666705 0.306987

50 0.154190 0.6 2 0.57841 0.666705 0.306987

51 0.154190 0.7 2 0.57841 0.666705 0.306987

52 0.154190 0.8 2 0.57841 0.666705 0.306987

48 0.154190 0.4 2 0.57841 0.666705 0.306987

db\_index calinski\_harabasz cophenet

62 0.586755 273.119496 NaN

53 0.586755 273.119496 NaN

45 0.586755 273.119496 NaN

46 0.586755 273.119496 NaN

47 0.586755 273.119496 NaN

49 0.586755 273.119496 NaN

50 0.586755 273.119496 NaN

51 0.586755 273.119496 NaN

52 0.586755 273.119496 NaN

48 0.586755 273.119496 NaN

=== Top 10 by Silhouette (Gower, high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

31 0.101074 0.5 3 0.488014 0.674961 0.230448

33 0.101074 0.7 3 0.488014 0.674961 0.230448

24 0.083610 0.7 3 0.488014 0.674961 0.230448

25 0.083610 0.8 3 0.488014 0.674961 0.230448

26 0.083610 0.9 3 0.488014 0.674961 0.230448

27 0.101074 0.1 3 0.488014 0.674961 0.230448

28 0.101074 0.2 3 0.488014 0.674961 0.230448

29 0.101074 0.3 3 0.488014 0.674961 0.230448

30 0.101074 0.4 3 0.488014 0.674961 0.230448

32 0.101074 0.6 3 0.488014 0.674961 0.230448

db\_index calinski\_harabasz cophenet

31 0.844035 265.027011 0.789707

33 0.844035 265.027011 0.789707

24 0.844035 265.027011 0.789707

25 0.844035 265.027011 0.789707

26 0.844035 265.027011 0.789707

27 0.844035 265.027011 0.789707

28 0.844035 265.027011 0.789707

29 0.844035 265.027011 0.789707

30 0.844035 265.027011 0.789707

32 0.844035 265.027011 0.789707

=== Top 10 by Calinski–Harabasz (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

62 0.202894 0.9 2 0.57841 0.666705 0.306987

53 0.154190 0.9 2 0.57841 0.666705 0.306987

45 0.154190 0.1 2 0.57841 0.666705 0.306987

46 0.154190 0.2 2 0.57841 0.666705 0.306987

47 0.154190 0.3 2 0.57841 0.666705 0.306987

49 0.154190 0.5 2 0.57841 0.666705 0.306987

50 0.154190 0.6 2 0.57841 0.666705 0.306987

51 0.154190 0.7 2 0.57841 0.666705 0.306987

52 0.154190 0.8 2 0.57841 0.666705 0.306987

48 0.154190 0.4 2 0.57841 0.666705 0.306987

db\_index calinski\_harabasz cophenet

62 0.586755 273.119496 NaN

53 0.586755 273.119496 NaN

45 0.586755 273.119496 NaN

46 0.586755 273.119496 NaN

47 0.586755 273.119496 NaN

49 0.586755 273.119496 NaN

50 0.586755 273.119496 NaN

51 0.586755 273.119496 NaN

52 0.586755 273.119496 NaN

48 0.586755 273.119496 NaN

=== Top 10 by Dunn Index (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

0 0.054559 0.1 3 0.437618 0.579378 0.352562

5 0.054559 0.6 3 0.437618 0.579378 0.352562

1 0.054559 0.2 3 0.437618 0.579378 0.352562

7 0.054559 0.8 3 0.437618 0.579378 0.352562

6 0.054559 0.7 3 0.437618 0.579378 0.352562

8 0.054559 0.9 3 0.437618 0.579378 0.352562

4 0.054559 0.5 3 0.437618 0.579378 0.352562

3 0.054559 0.4 3 0.437618 0.579378 0.352562

2 0.054559 0.3 3 0.437618 0.579378 0.352562

53 0.154190 0.9 2 0.578410 0.666705 0.306987

db\_index calinski\_harabasz cophenet

0 3.515863 129.019572 0.813292

5 3.515863 129.019572 0.813292

1 3.515863 129.019572 0.813292

7 3.515863 129.019572 0.813292

6 3.515863 129.019572 0.813292

8 3.515863 129.019572 0.813292

4 3.515863 129.019572 0.813292

3 3.515863 129.019572 0.813292

2 3.515863 129.019572 0.813292

53 0.586755 273.119496 NaN

=== Top 10 by Davies–Bouldin (low→high) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

62 0.202894 0.9 2 0.57841 0.666705 0.306987

45 0.154190 0.1 2 0.57841 0.666705 0.306987

47 0.154190 0.3 2 0.57841 0.666705 0.306987

48 0.154190 0.4 2 0.57841 0.666705 0.306987

49 0.154190 0.5 2 0.57841 0.666705 0.306987

50 0.154190 0.6 2 0.57841 0.666705 0.306987

51 0.154190 0.7 2 0.57841 0.666705 0.306987

52 0.154190 0.8 2 0.57841 0.666705 0.306987

46 0.154190 0.2 2 0.57841 0.666705 0.306987

54 0.202894 0.1 2 0.57841 0.666705 0.306987

db\_index calinski\_harabasz cophenet

62 0.586755 273.119496 NaN

45 0.586755 273.119496 NaN

47 0.586755 273.119496 NaN

48 0.586755 273.119496 NaN

49 0.586755 273.119496 NaN

50 0.586755 273.119496 NaN

51 0.586755 273.119496 NaN

52 0.586755 273.119496 NaN

46 0.586755 273.119496 NaN

54 0.586755 273.119496 NaN

=== Top 10 by Cophenetic Corr (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

0 0.054559 0.1 3 0.437618 0.579378 0.352562

2 0.054559 0.3 3 0.437618 0.579378 0.352562

3 0.054559 0.4 3 0.437618 0.579378 0.352562

4 0.054559 0.5 3 0.437618 0.579378 0.352562

5 0.054559 0.6 3 0.437618 0.579378 0.352562

6 0.054559 0.7 3 0.437618 0.579378 0.352562

7 0.054559 0.8 3 0.437618 0.579378 0.352562

8 0.054559 0.9 3 0.437618 0.579378 0.352562

1 0.054559 0.2 3 0.437618 0.579378 0.352562

13 0.069721 0.5 3 0.468433 0.583651 0.230448

db\_index calinski\_harabasz cophenet

0 3.515863 129.019572 0.813292

2 3.515863 129.019572 0.813292

3 3.515863 129.019572 0.813292

4 3.515863 129.019572 0.813292

5 3.515863 129.019572 0.813292

6 3.515863 129.019572 0.813292

7 3.515863 129.019572 0.813292

8 3.515863 129.019572 0.813292

1 3.515863 129.019572 0.813292

13 3.011590 177.602698 0.789975

>> Re-evaluating at thr=0.203, ov\_thr=0.90

Silhouette Coefficient: 0.578

Silhouette (Gower): 0.667

Calinski–Harabasz Index: 273.119

Dunn Index: 0.307

Davies–Bouldin Index: 0.587

Cophenetic Corr. Coef (CCC): nan

Method Sil(Euc) Sil(Gow) CH Dunn DB

------------------------------------------------------------

Agglomerative 0.488 0.675 265.0 0.230 0.844

K-Medoids 0.488 0.675 265.0 0.230 0.844

AffinityProp 0.286 0.280 172.9 0.056 1.136

Spectral 0.048 0.069 12.4 0.010 2.699

K-Prototypes 0.491 0.650 271.2 0.117 0.831

PENGUINS

=== Top 10 by Silhouette (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

35 0.181731 0.9 2 0.513492 0.548810 0.287919

34 0.181731 0.8 2 0.513492 0.548810 0.287919

33 0.181731 0.7 2 0.513492 0.548810 0.287919

32 0.181731 0.6 2 0.513492 0.548810 0.287919

31 0.181731 0.5 2 0.513492 0.548810 0.287919

30 0.181731 0.4 2 0.513492 0.548810 0.287919

29 0.181731 0.3 2 0.513492 0.548810 0.287919

28 0.181731 0.2 2 0.513492 0.548810 0.287919

27 0.181731 0.1 2 0.513492 0.548810 0.287919

1 0.047787 0.2 10 0.375645 0.638489 0.314970

db\_index calinski\_harabasz cophenet

35 0.710898 486.402563 NaN

34 0.710898 486.402563 NaN

33 0.710898 486.402563 NaN

32 0.710898 486.402563 NaN

31 0.710898 486.402563 NaN

30 0.710898 486.402563 NaN

29 0.710898 486.402563 NaN

28 0.710898 486.402563 NaN

27 0.710898 486.402563 NaN

1 1.640421 242.231066 0.864354

=== Top 10 by Silhouette (Gower, high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

0 0.047787 0.1 10 0.375645 0.638489 0.314970

5 0.047787 0.6 10 0.375645 0.638489 0.314970

1 0.047787 0.2 10 0.375645 0.638489 0.314970

7 0.047787 0.8 10 0.375645 0.638489 0.314970

6 0.047787 0.7 10 0.375645 0.638489 0.314970

8 0.047787 0.9 10 0.375645 0.638489 0.314970

4 0.047787 0.5 10 0.375645 0.638489 0.314970

3 0.047787 0.4 10 0.375645 0.638489 0.314970

2 0.047787 0.3 10 0.375645 0.638489 0.314970

26 0.135398 0.9 4 0.298577 0.588820 0.203827

db\_index calinski\_harabasz cophenet

0 1.640421 242.231066 0.864354

5 1.640421 242.231066 0.864354

1 1.640421 242.231066 0.864354

7 1.640421 242.231066 0.864354

6 1.640421 242.231066 0.864354

8 1.640421 242.231066 0.864354

4 1.640421 242.231066 0.864354

3 1.640421 242.231066 0.864354

2 1.640421 242.231066 0.864354

26 1.297043 275.320015 0.867796

=== Top 10 by Calinski–Harabasz (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

35 0.181731 0.9 2 0.513492 0.54881 0.287919

34 0.181731 0.8 2 0.513492 0.54881 0.287919

33 0.181731 0.7 2 0.513492 0.54881 0.287919

32 0.181731 0.6 2 0.513492 0.54881 0.287919

31 0.181731 0.5 2 0.513492 0.54881 0.287919

30 0.181731 0.4 2 0.513492 0.54881 0.287919

29 0.181731 0.3 2 0.513492 0.54881 0.287919

28 0.181731 0.2 2 0.513492 0.54881 0.287919

27 0.181731 0.1 2 0.513492 0.54881 0.287919

14 0.085227 0.6 4 0.328584 0.58682 0.203960

db\_index calinski\_harabasz cophenet

35 0.710898 486.402563 NaN

34 0.710898 486.402563 NaN

33 0.710898 486.402563 NaN

32 0.710898 486.402563 NaN

31 0.710898 486.402563 NaN

30 0.710898 486.402563 NaN

29 0.710898 486.402563 NaN

28 0.710898 486.402563 NaN

27 0.710898 486.402563 NaN

14 1.181304 296.515284 0.916405

=== Top 10 by Dunn Index (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

0 0.047787 0.1 10 0.375645 0.638489 0.314970

5 0.047787 0.6 10 0.375645 0.638489 0.314970

1 0.047787 0.2 10 0.375645 0.638489 0.314970

7 0.047787 0.8 10 0.375645 0.638489 0.314970

6 0.047787 0.7 10 0.375645 0.638489 0.314970

8 0.047787 0.9 10 0.375645 0.638489 0.314970

4 0.047787 0.5 10 0.375645 0.638489 0.314970

3 0.047787 0.4 10 0.375645 0.638489 0.314970

2 0.047787 0.3 10 0.375645 0.638489 0.314970

34 0.181731 0.8 2 0.513492 0.548810 0.287919

db\_index calinski\_harabasz cophenet

0 1.640421 242.231066 0.864354

5 1.640421 242.231066 0.864354

1 1.640421 242.231066 0.864354

7 1.640421 242.231066 0.864354

6 1.640421 242.231066 0.864354

8 1.640421 242.231066 0.864354

4 1.640421 242.231066 0.864354

3 1.640421 242.231066 0.864354

2 1.640421 242.231066 0.864354

34 0.710898 486.402563 NaN

=== Top 10 by Davies–Bouldin (low→high) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

35 0.181731 0.9 2 0.513492 0.54881 0.287919

33 0.181731 0.7 2 0.513492 0.54881 0.287919

32 0.181731 0.6 2 0.513492 0.54881 0.287919

31 0.181731 0.5 2 0.513492 0.54881 0.287919

30 0.181731 0.4 2 0.513492 0.54881 0.287919

29 0.181731 0.3 2 0.513492 0.54881 0.287919

28 0.181731 0.2 2 0.513492 0.54881 0.287919

27 0.181731 0.1 2 0.513492 0.54881 0.287919

34 0.181731 0.8 2 0.513492 0.54881 0.287919

16 0.085227 0.8 4 0.328584 0.58682 0.203960

db\_index calinski\_harabasz cophenet

35 0.710898 486.402563 NaN

33 0.710898 486.402563 NaN

32 0.710898 486.402563 NaN

31 0.710898 486.402563 NaN

30 0.710898 486.402563 NaN

29 0.710898 486.402563 NaN

28 0.710898 486.402563 NaN

27 0.710898 486.402563 NaN

34 0.710898 486.402563 NaN

16 1.181304 296.515284 0.916405

=== Top 10 by Cophenetic Corr (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

13 0.085227 0.5 4 0.328584 0.58682 0.203960

17 0.085227 0.9 4 0.328584 0.58682 0.203960

15 0.085227 0.7 4 0.328584 0.58682 0.203960

14 0.085227 0.6 4 0.328584 0.58682 0.203960

12 0.085227 0.4 4 0.328584 0.58682 0.203960

11 0.085227 0.3 4 0.328584 0.58682 0.203960

10 0.085227 0.2 4 0.328584 0.58682 0.203960

9 0.085227 0.1 4 0.328584 0.58682 0.203960

16 0.085227 0.8 4 0.328584 0.58682 0.203960

20 0.135398 0.3 4 0.298577 0.58882 0.203827

db\_index calinski\_harabasz cophenet

13 1.181304 296.515284 0.916405

17 1.181304 296.515284 0.916405

15 1.181304 296.515284 0.916405

14 1.181304 296.515284 0.916405

12 1.181304 296.515284 0.916405

11 1.181304 296.515284 0.916405

10 1.181304 296.515284 0.916405

9 1.181304 296.515284 0.916405

16 1.181304 296.515284 0.916405

20 1.297043 275.320015 0.867796

>> Re-evaluating at thr=0.182, ov\_thr=0.90

Silhouette Coefficient: 0.513

Silhouette (Gower): 0.549

Calinski–Harabasz Index: 486.403

Dunn Index: 0.288

Davies–Bouldin Index: 0.711

Cophenetic Corr. Coef (CCC): nan

Method Sil(Euc) Sil(Gow) CH Dunn DB

------------------------------------------------------------

Agglomerative 0.338 0.545 322.9 0.204 1.484

K-Medoids 0.339 0.540 325.9 0.093 1.497

AffinityProp 0.288 0.441 240.0 0.033 1.191

Spectral -0.031 -0.037 0.2 0.000 29.125

K-Prototypes 0.402 0.405 415.0 0.044 1.057

TITANIC

=== Top 10 by Silhouette (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

0 0.125823 0.1 2 -0.058236 0.310393 0.023716

1 0.125823 0.2 2 -0.058236 0.310393 0.023716

2 0.125823 0.3 2 -0.058236 0.310393 0.023716

3 0.125823 0.4 2 -0.058236 0.310393 0.023716

4 0.125823 0.5 2 -0.058236 0.310393 0.023716

5 0.125823 0.6 2 -0.058236 0.310393 0.023716

6 0.125823 0.7 2 -0.058236 0.310393 0.023716

7 0.125823 0.8 2 -0.058236 0.310393 0.023716

8 0.125823 0.9 2 -0.058236 0.310393 0.023716

17 0.155560 0.9 2 -0.093776 0.341115 0.023716

db\_index calinski\_harabasz cophenet

0 7.967117 1.211111 NaN

1 7.967117 1.211111 NaN

2 7.967117 1.211111 NaN

3 7.967117 1.211111 NaN

4 7.967117 1.211111 NaN

5 7.967117 1.211111 NaN

6 7.967117 1.211111 NaN

7 7.967117 1.211111 NaN

8 7.967117 1.211111 NaN

17 6.573210 0.949776 NaN

=== Top 10 by Silhouette (Gower, high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

26 0.179109 0.9 2 -0.132967 0.362597 0.023716

25 0.179109 0.8 2 -0.132967 0.362597 0.023716

24 0.179109 0.7 2 -0.132967 0.362597 0.023716

23 0.179109 0.6 2 -0.132967 0.362597 0.023716

22 0.179109 0.5 2 -0.132967 0.362597 0.023716

21 0.179109 0.4 2 -0.132967 0.362597 0.023716

20 0.179109 0.3 2 -0.132967 0.362597 0.023716

19 0.179109 0.2 2 -0.132967 0.362597 0.023716

18 0.179109 0.1 2 -0.132967 0.362597 0.023716

14 0.155560 0.6 2 -0.093776 0.341115 0.023716

db\_index calinski\_harabasz cophenet

26 4.795154 1.386022 NaN

25 4.795154 1.386022 NaN

24 4.795154 1.386022 NaN

23 4.795154 1.386022 NaN

22 4.795154 1.386022 NaN

21 4.795154 1.386022 NaN

20 4.795154 1.386022 NaN

19 4.795154 1.386022 NaN

18 4.795154 1.386022 NaN

14 6.573210 0.949776 NaN

=== Top 10 by Calinski–Harabasz (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

26 0.179109 0.9 2 -0.132967 0.362597 0.023716

25 0.179109 0.8 2 -0.132967 0.362597 0.023716

24 0.179109 0.7 2 -0.132967 0.362597 0.023716

23 0.179109 0.6 2 -0.132967 0.362597 0.023716

22 0.179109 0.5 2 -0.132967 0.362597 0.023716

21 0.179109 0.4 2 -0.132967 0.362597 0.023716

20 0.179109 0.3 2 -0.132967 0.362597 0.023716

19 0.179109 0.2 2 -0.132967 0.362597 0.023716

18 0.179109 0.1 2 -0.132967 0.362597 0.023716

1 0.125823 0.2 2 -0.058236 0.310393 0.023716

db\_index calinski\_harabasz cophenet

26 4.795154 1.386022 NaN

25 4.795154 1.386022 NaN

24 4.795154 1.386022 NaN

23 4.795154 1.386022 NaN

22 4.795154 1.386022 NaN

21 4.795154 1.386022 NaN

20 4.795154 1.386022 NaN

19 4.795154 1.386022 NaN

18 4.795154 1.386022 NaN

1 7.967117 1.211111 NaN

=== Top 10 by Dunn Index (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

0 0.125823 0.1 2 -0.058236 0.310393 0.023716

14 0.155560 0.6 2 -0.093776 0.341115 0.023716

25 0.179109 0.8 2 -0.132967 0.362597 0.023716

24 0.179109 0.7 2 -0.132967 0.362597 0.023716

23 0.179109 0.6 2 -0.132967 0.362597 0.023716

22 0.179109 0.5 2 -0.132967 0.362597 0.023716

21 0.179109 0.4 2 -0.132967 0.362597 0.023716

20 0.179109 0.3 2 -0.132967 0.362597 0.023716

19 0.179109 0.2 2 -0.132967 0.362597 0.023716

18 0.179109 0.1 2 -0.132967 0.362597 0.023716

db\_index calinski\_harabasz cophenet

0 7.967117 1.211111 NaN

14 6.573210 0.949776 NaN

25 4.795154 1.386022 NaN

24 4.795154 1.386022 NaN

23 4.795154 1.386022 NaN

22 4.795154 1.386022 NaN

21 4.795154 1.386022 NaN

20 4.795154 1.386022 NaN

19 4.795154 1.386022 NaN

18 4.795154 1.386022 NaN

=== Top 10 by Davies–Bouldin (low→high) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

26 0.179109 0.9 2 -0.132967 0.362597 0.023716

24 0.179109 0.7 2 -0.132967 0.362597 0.023716

23 0.179109 0.6 2 -0.132967 0.362597 0.023716

22 0.179109 0.5 2 -0.132967 0.362597 0.023716

21 0.179109 0.4 2 -0.132967 0.362597 0.023716

20 0.179109 0.3 2 -0.132967 0.362597 0.023716

19 0.179109 0.2 2 -0.132967 0.362597 0.023716

18 0.179109 0.1 2 -0.132967 0.362597 0.023716

25 0.179109 0.8 2 -0.132967 0.362597 0.023716

17 0.155560 0.9 2 -0.093776 0.341115 0.023716

db\_index calinski\_harabasz cophenet

26 4.795154 1.386022 NaN

24 4.795154 1.386022 NaN

23 4.795154 1.386022 NaN

22 4.795154 1.386022 NaN

21 4.795154 1.386022 NaN

20 4.795154 1.386022 NaN

19 4.795154 1.386022 NaN

18 4.795154 1.386022 NaN

25 4.795154 1.386022 NaN

17 6.573210 0.949776 NaN

=== Top 10 by Cophenetic Corr (high→low) ===

thr ov\_thr n\_clusters silhouette silhouette\_gower dunn \

0 0.125823 0.1 2 -0.058236 0.310393 0.023716

1 0.125823 0.2 2 -0.058236 0.310393 0.023716

2 0.125823 0.3 2 -0.058236 0.310393 0.023716

3 0.125823 0.4 2 -0.058236 0.310393 0.023716

4 0.125823 0.5 2 -0.058236 0.310393 0.023716

5 0.125823 0.6 2 -0.058236 0.310393 0.023716

6 0.125823 0.7 2 -0.058236 0.310393 0.023716

7 0.125823 0.8 2 -0.058236 0.310393 0.023716

8 0.125823 0.9 2 -0.058236 0.310393 0.023716

9 0.155560 0.1 2 -0.093776 0.341115 0.023716

db\_index calinski\_harabasz cophenet

0 7.967117 1.211111 NaN

1 7.967117 1.211111 NaN

2 7.967117 1.211111 NaN

3 7.967117 1.211111 NaN

4 7.967117 1.211111 NaN

5 7.967117 1.211111 NaN

6 7.967117 1.211111 NaN

7 7.967117 1.211111 NaN

8 7.967117 1.211111 NaN

9 6.573210 0.949776 NaN

>> Re-evaluating at thr=0.126, ov\_thr=0.10

Silhouette Coefficient: -0.058

Silhouette (Gower): 0.310

Calinski–Harabasz Index: 1.211

Dunn Index: 0.024

Davies–Bouldin Index: 7.967

Cophenetic Corr. Coef (CCC): nan

Method Sil(Euc) Sil(Gow) CH Dunn DB

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Agglomerative 0.003 0.447 1.5 0.024 7.046

K-Medoids 0.003 0.447 1.5 0.024 7.046

AffinityProp -0.235 0.140 3.1 0.030 5.750

Spectral -0.013 -0.019 0.1 0.024 30.131

K-Prototypes 0.002 0.418 1.3 0.024 7.623