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##  
##  
## Preprocessed Data from xcp_24p_gsr
```

compiled March 29, 2023

DCL events152 positive controls, with matlab convolution and downsampling.

files under /data/nil-external/dcl/Events152_fMRI_NeuralMechanisms/voxelwiseAnalyses/

47 people watched movies in four fMRI runs; everyone watched the same movie in each run (four different movies total; same order for everyone). Images were preprocessed with fmriprep (volumes only), then np2 detrended and normalized, and parcel-averaged using the Schaefer2018 400x7 parcellation (`analysisPrep.R`), then XCP engine (24p, gsr). The runs had the same number of volumes for everyone but the movie onsets varied a bit (7.9 to 11.4 seconds); see `e152onsets.txt` and `getOnsets.R`.

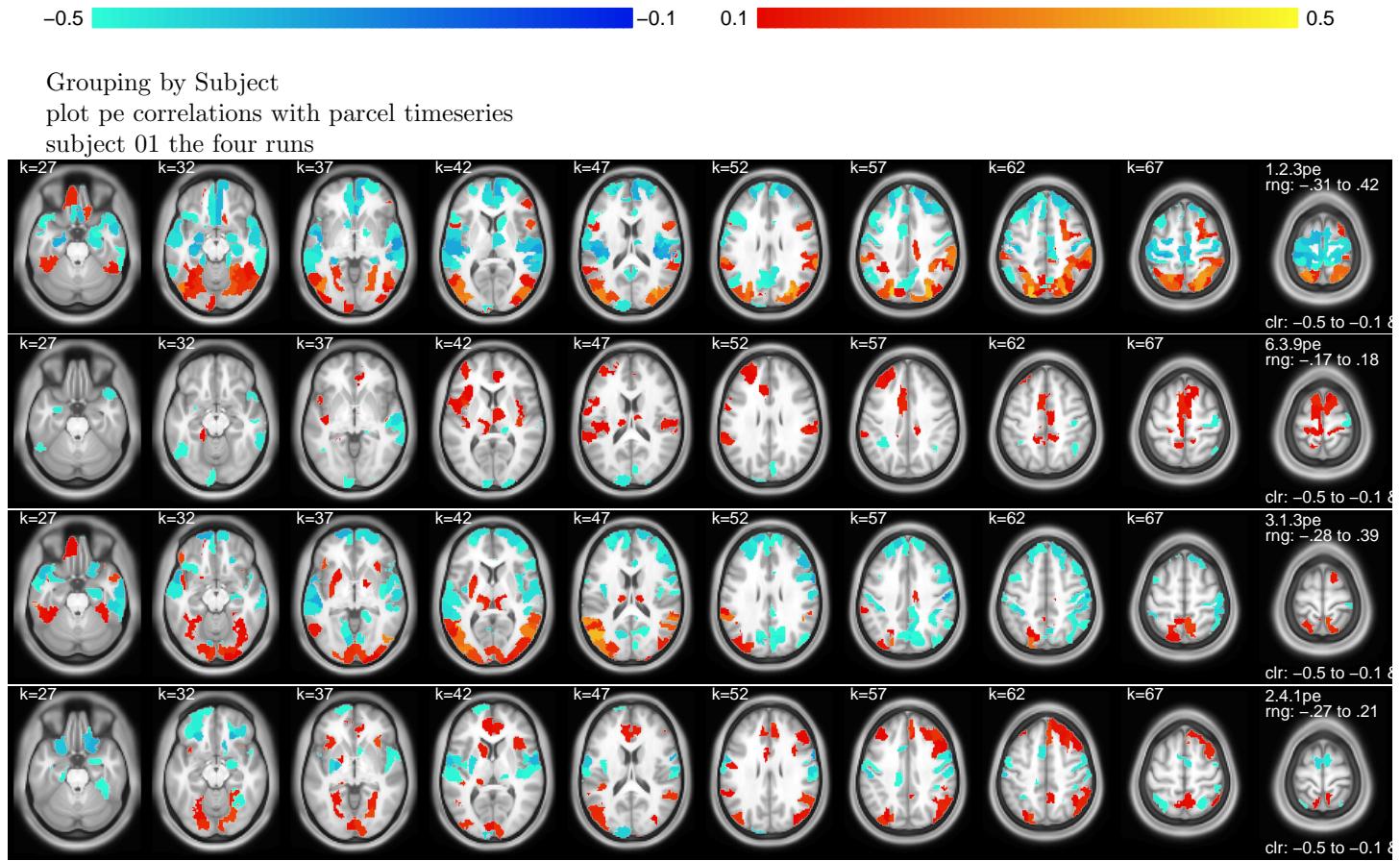
Tan Nguyen created the files with PE and Uncertainty statistics experienced by SEM model for each frame of each movie. These stats are every 0.333 seconds, much faster than the BOLD or the TR (1.483 sec). These stats were convolved and downsampled by running `convolve_seg_trigger.m`

Aligning the movie and BOLD timeseries properly before correlating has been a challenge, but seems to be sorted now. The first section shows the median correlation for each movie statistic and run at offset 0.

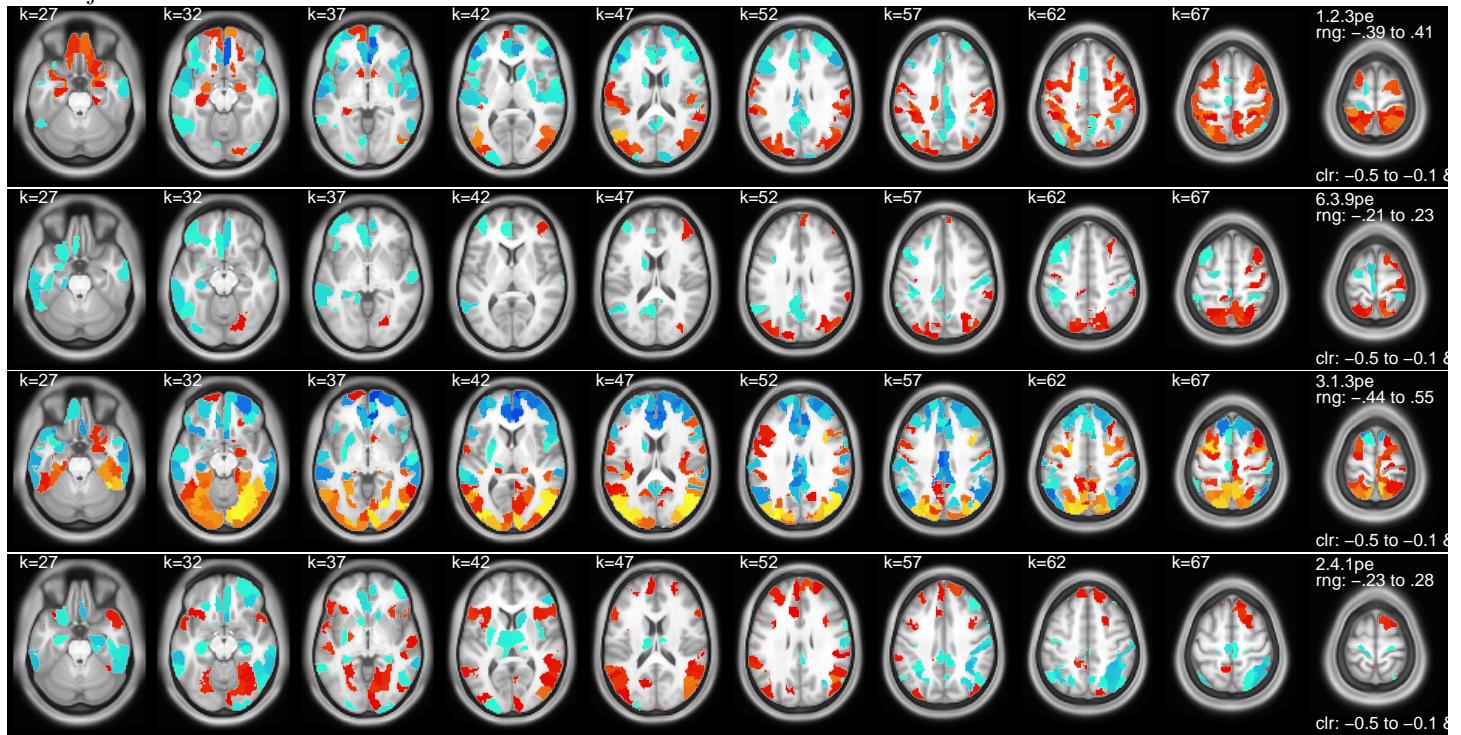
Correlation



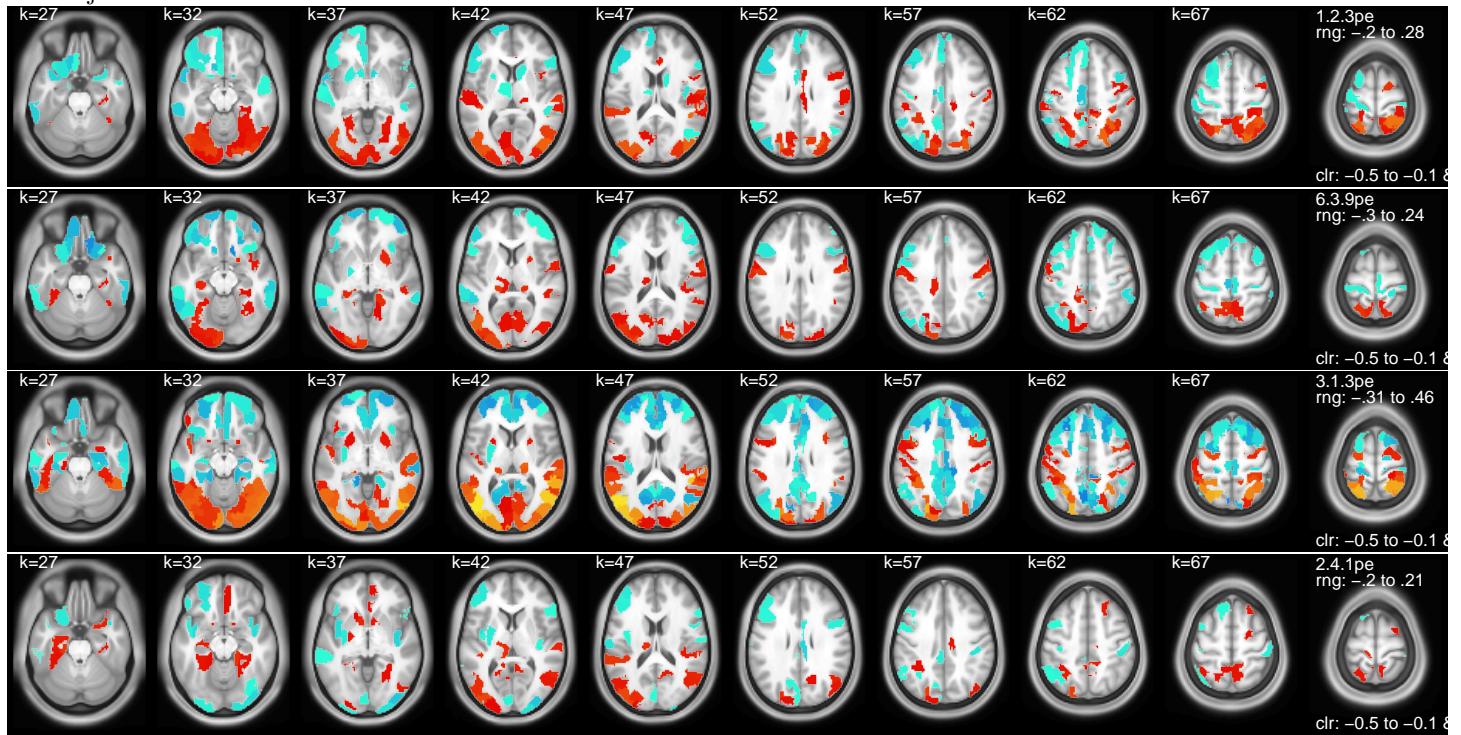
Correlation



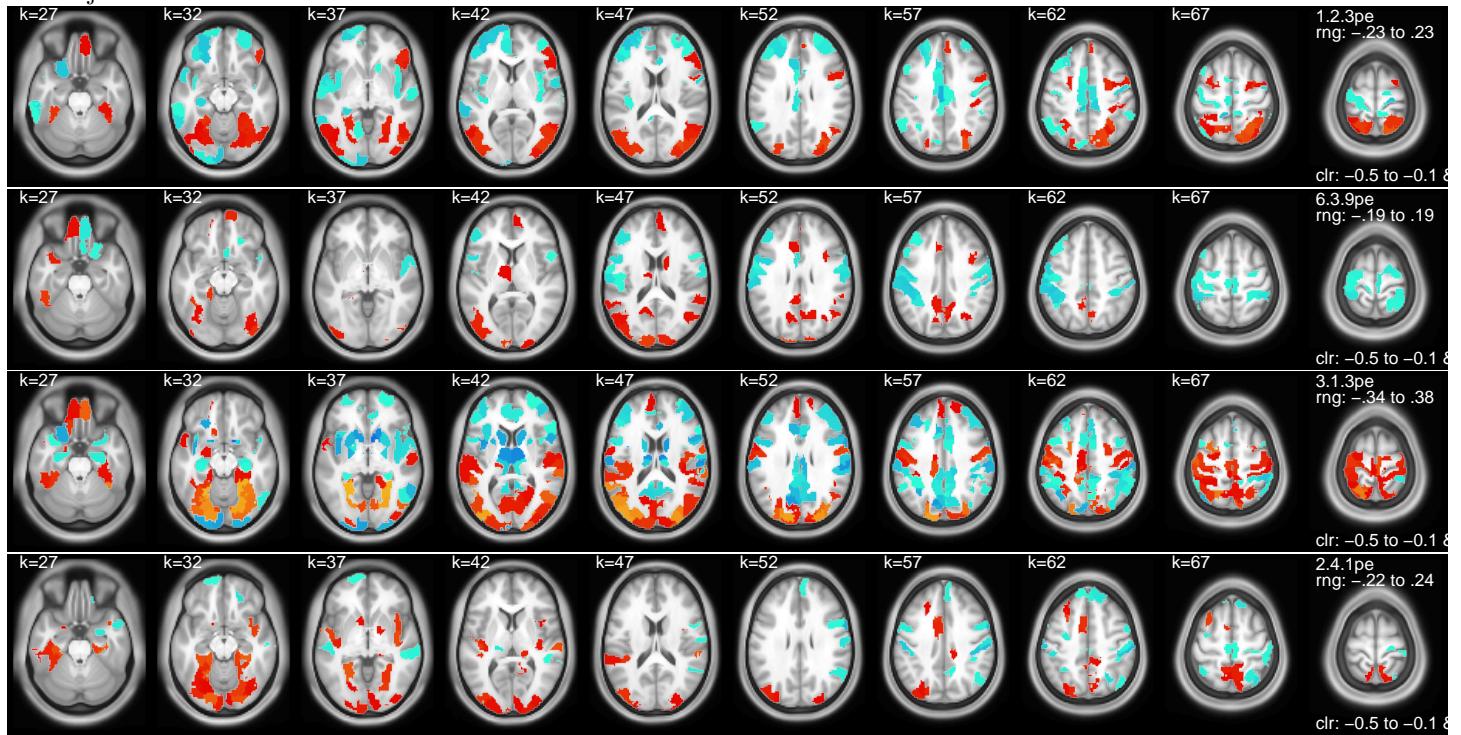
subject 02 the four runs



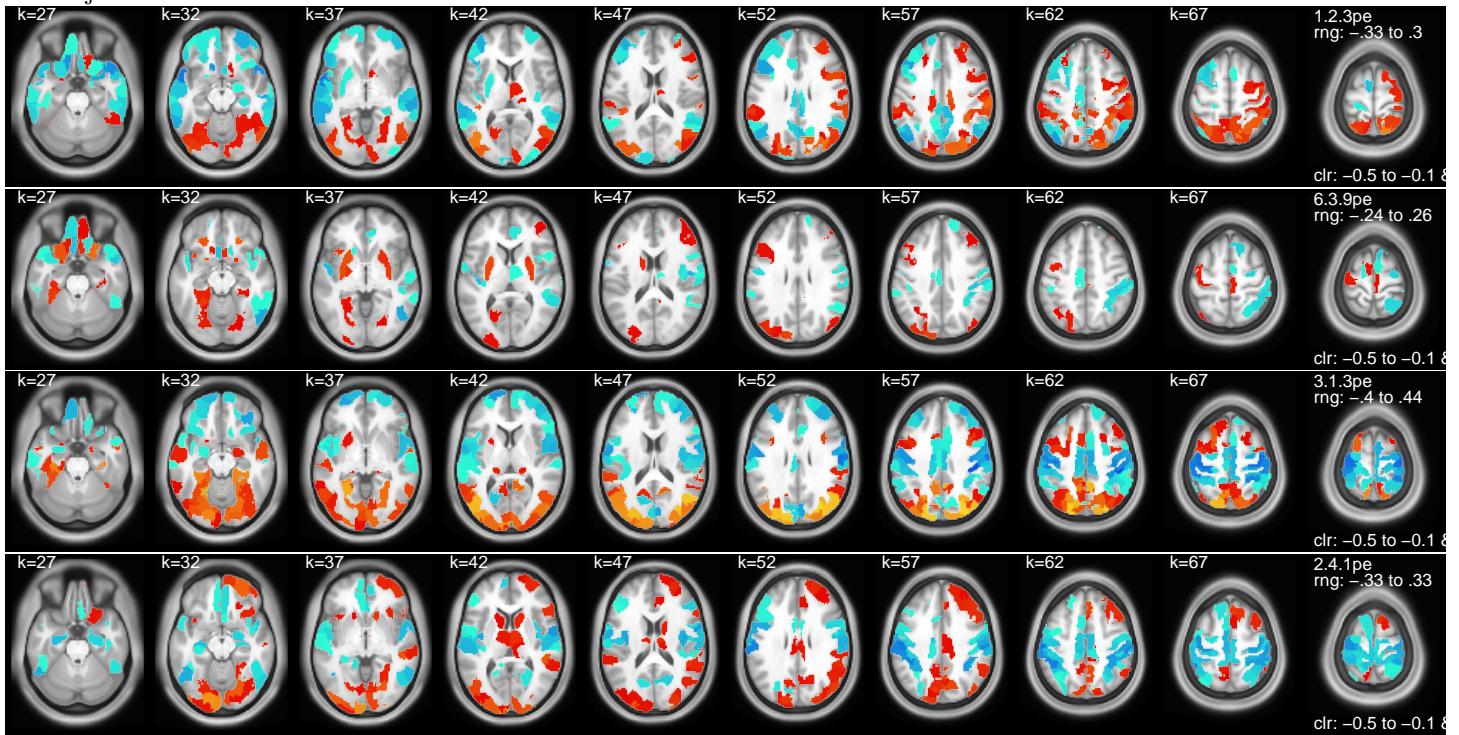
subject 03 the four runs



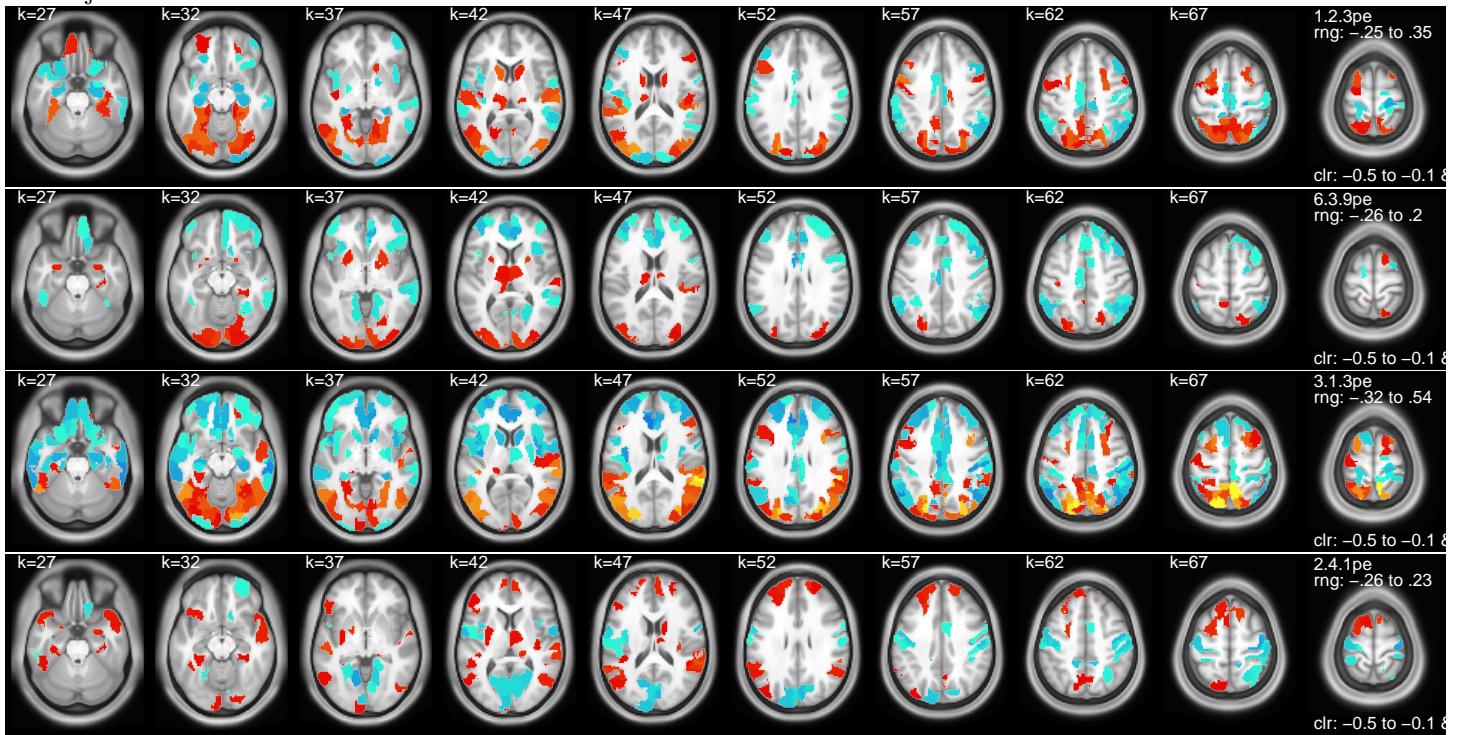
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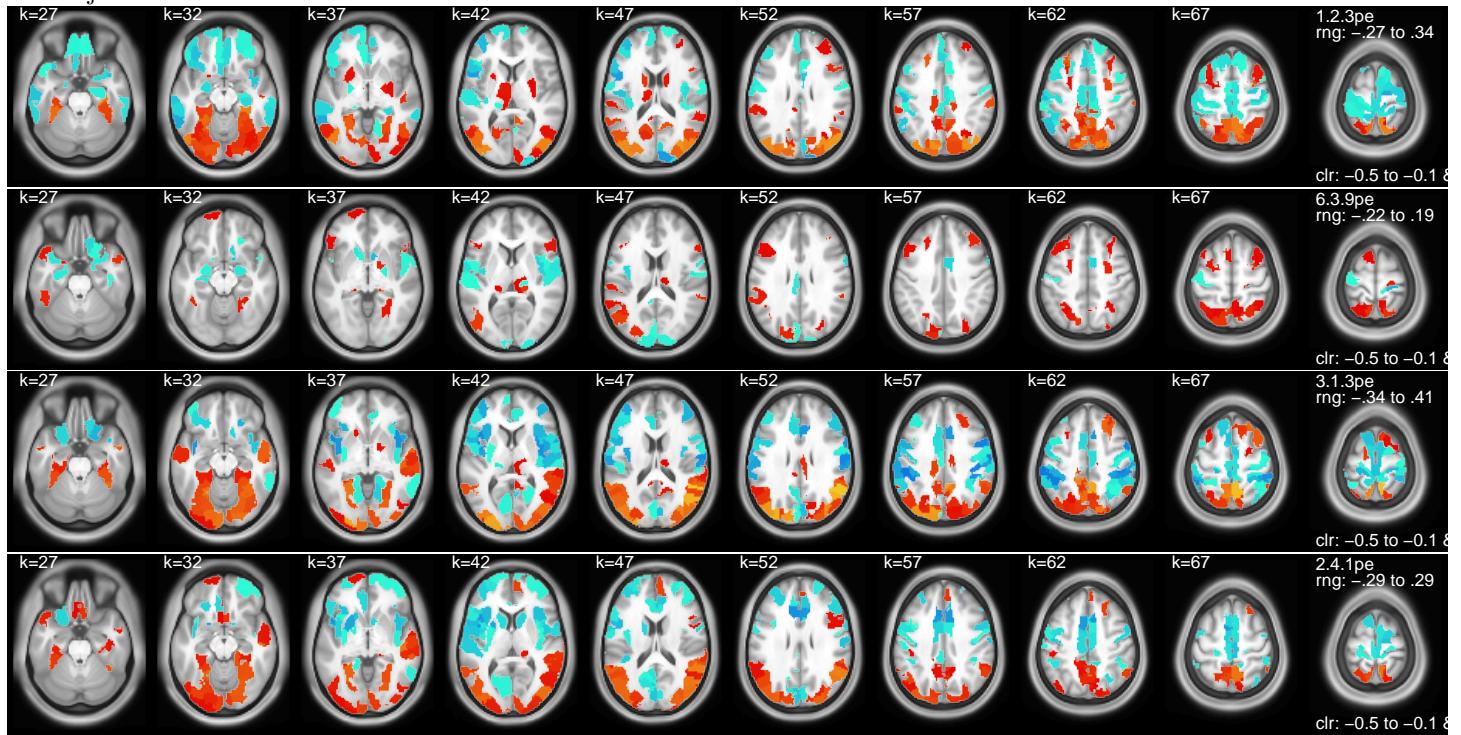
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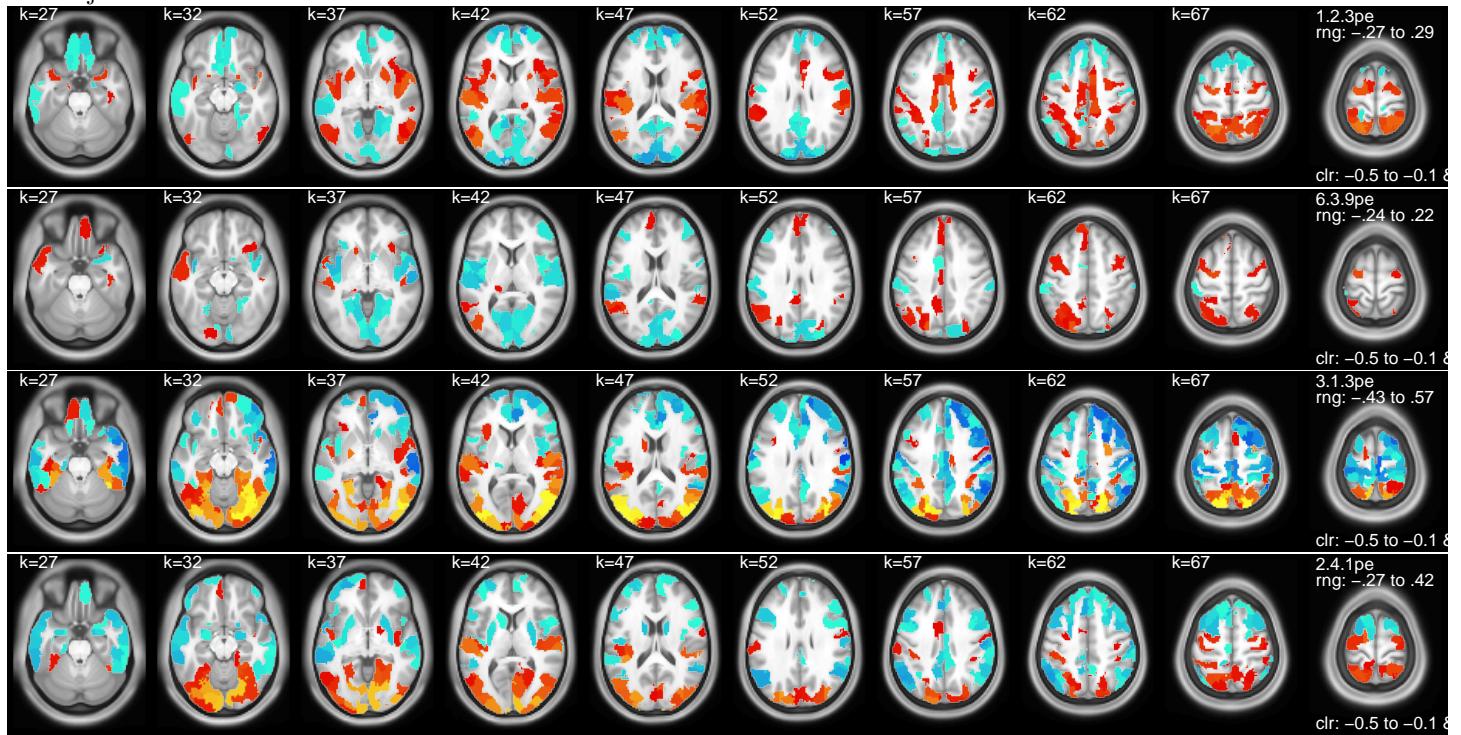
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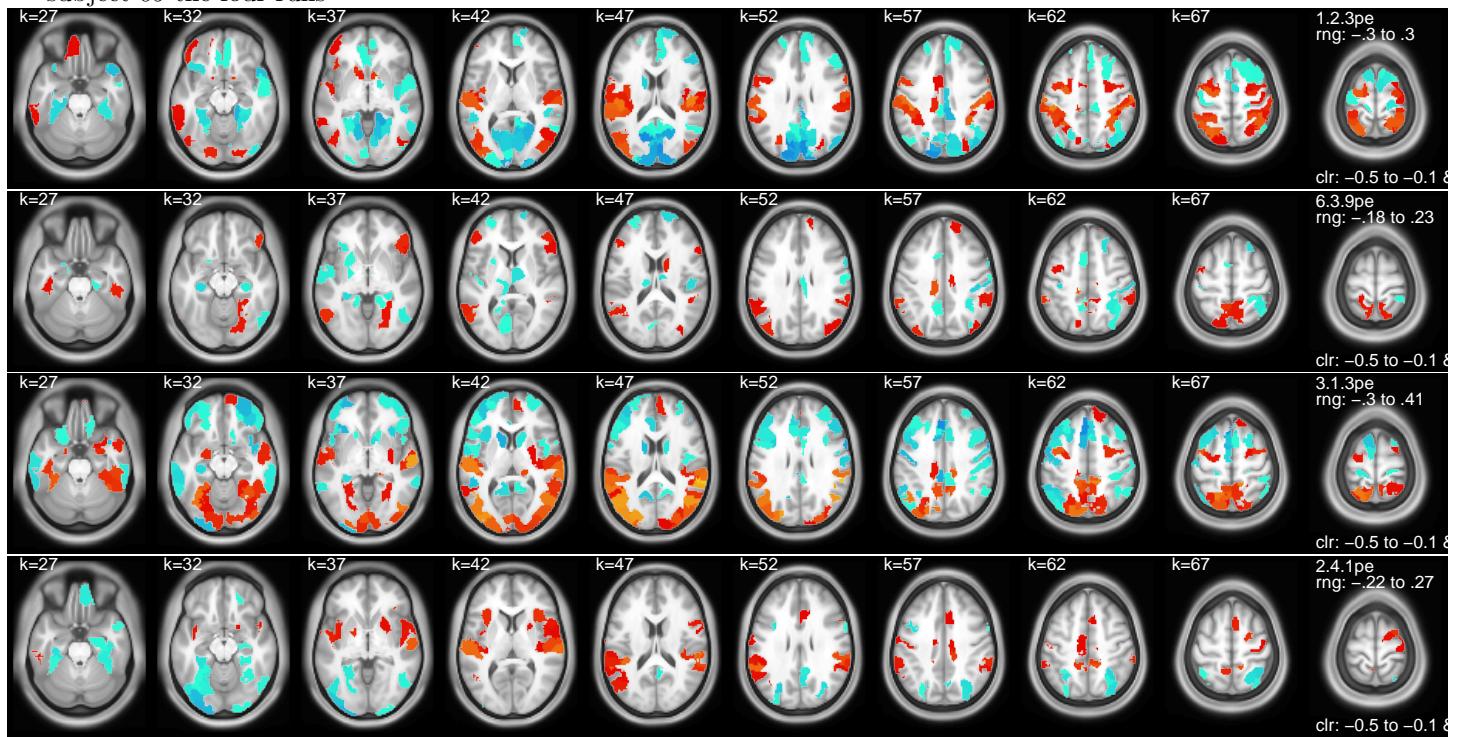
subject 07 the four runs



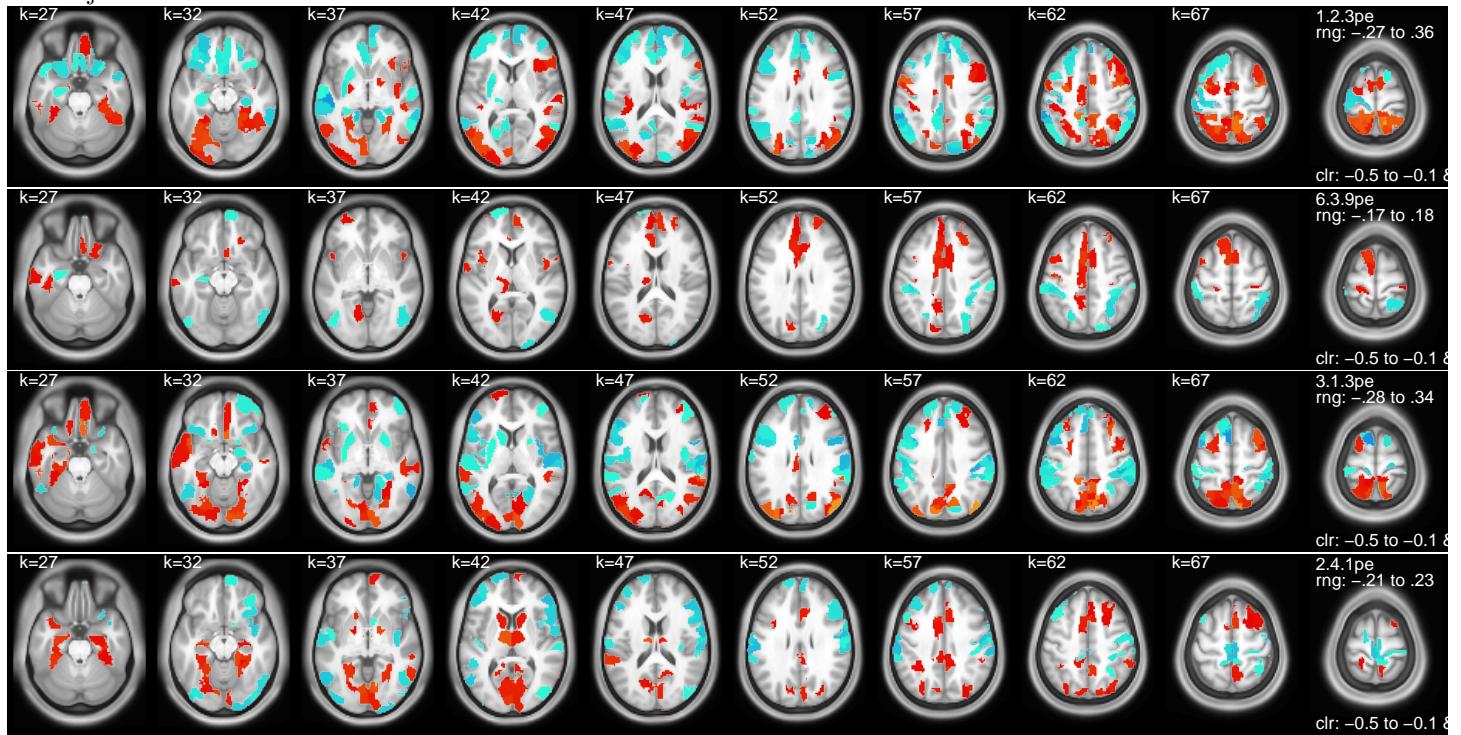
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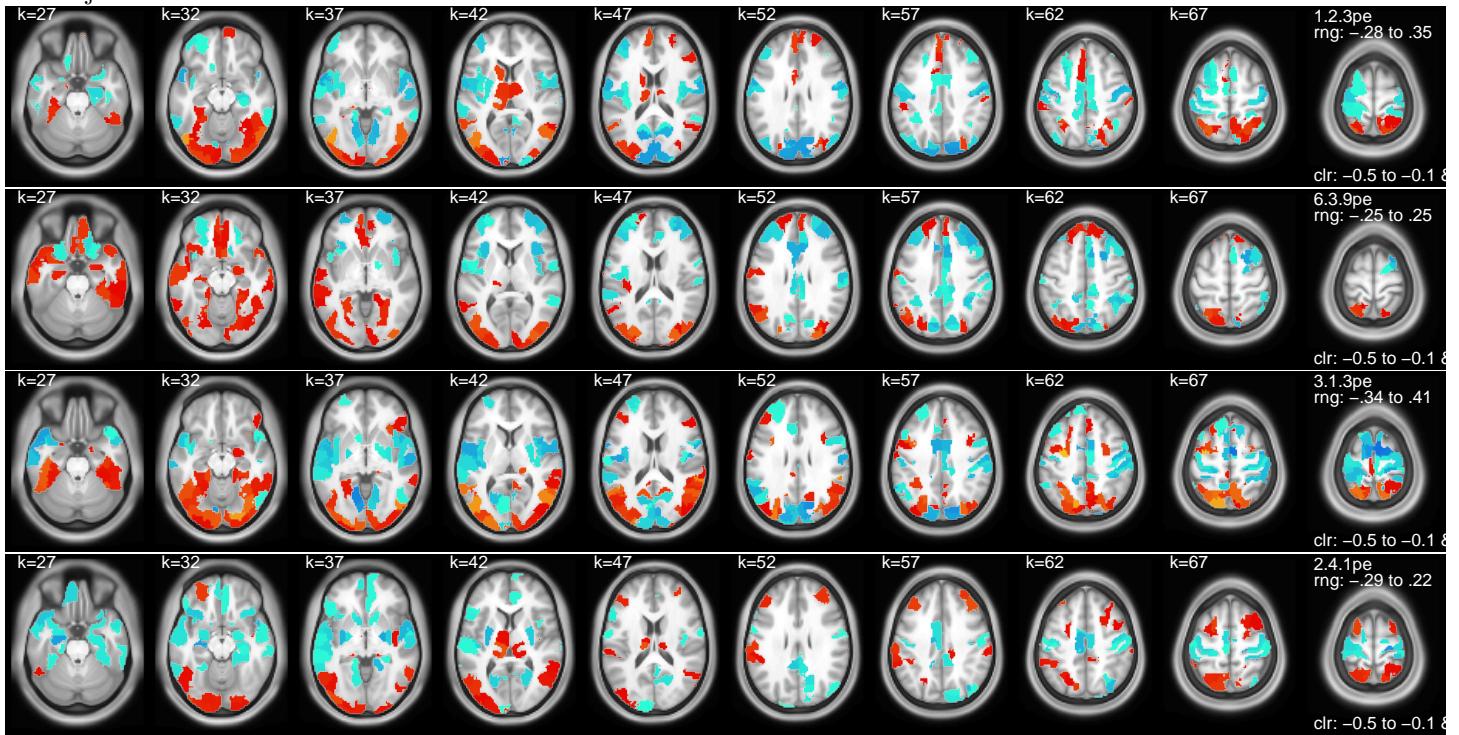
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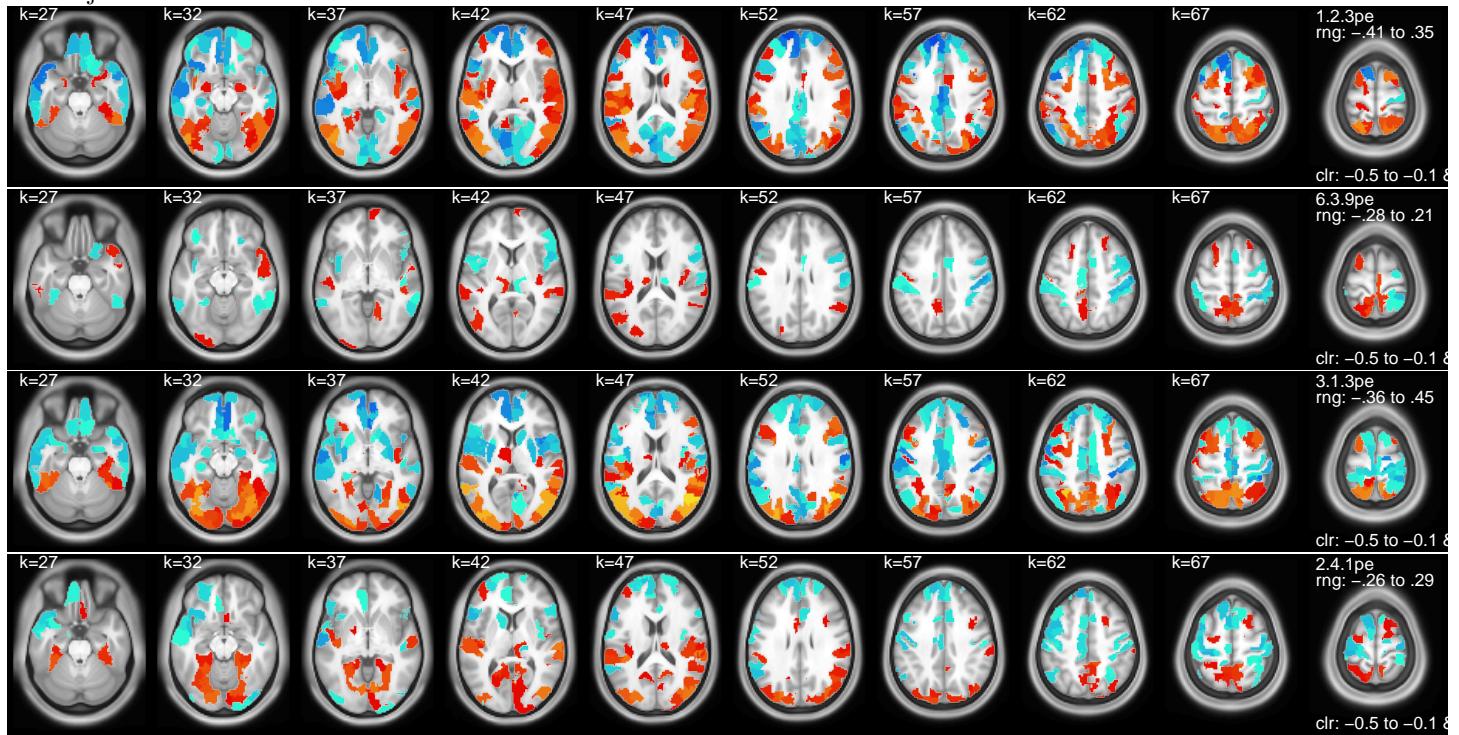
subject 11 the four runs



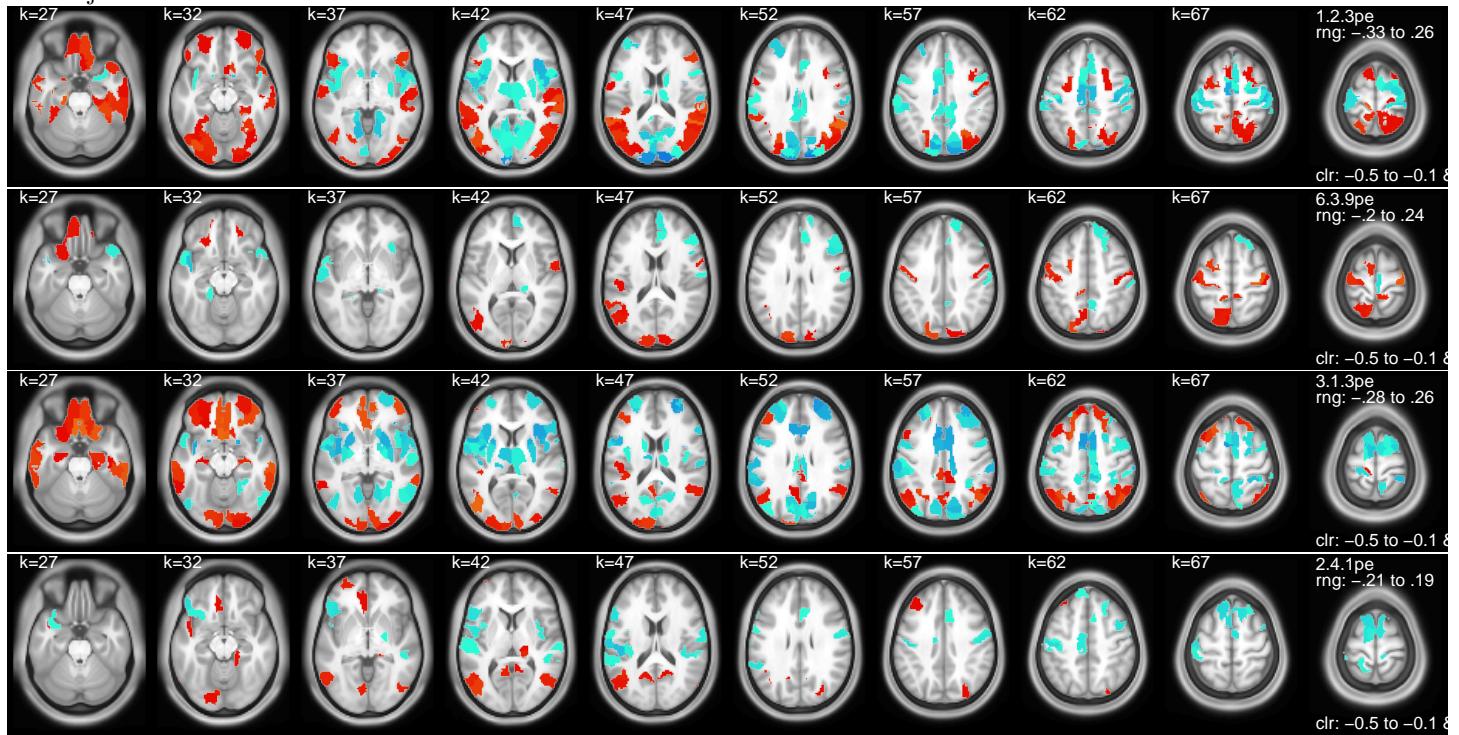
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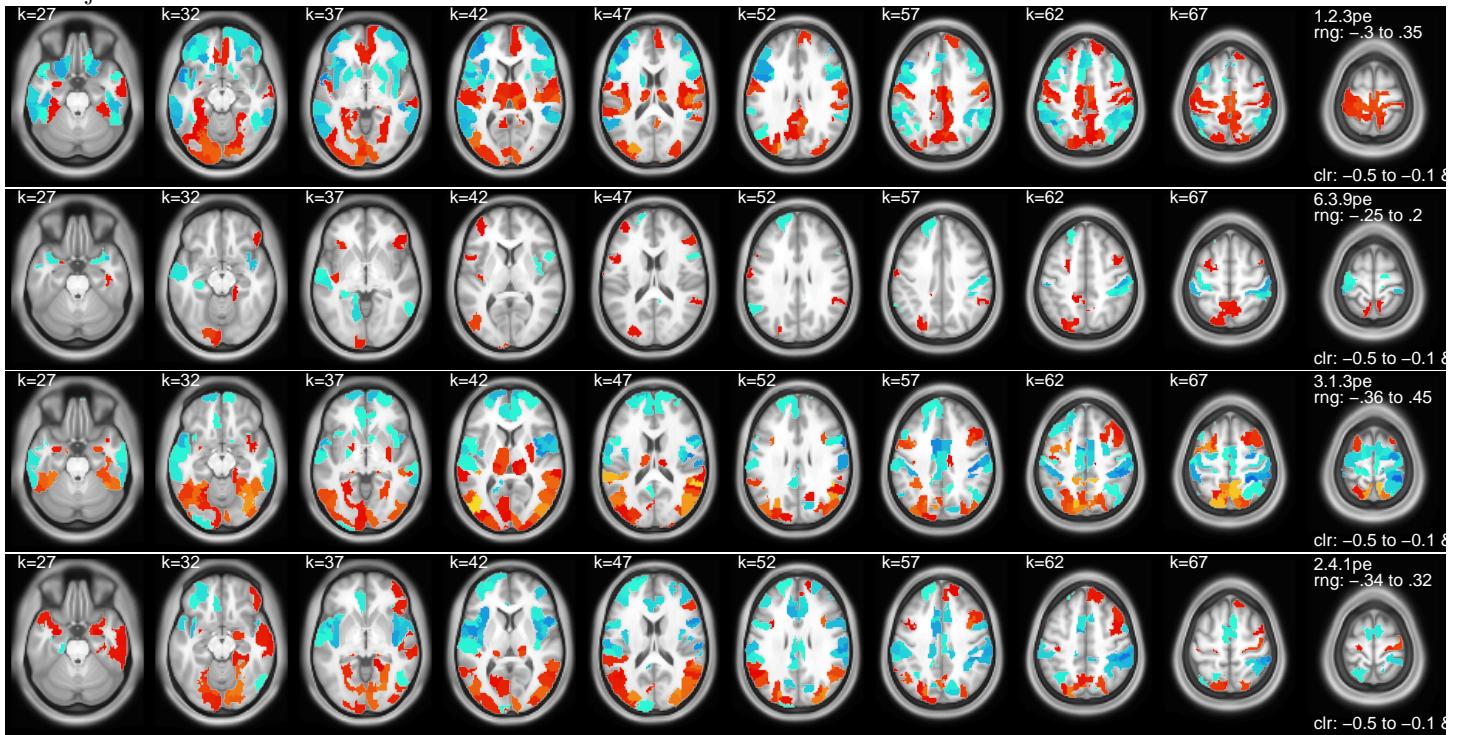
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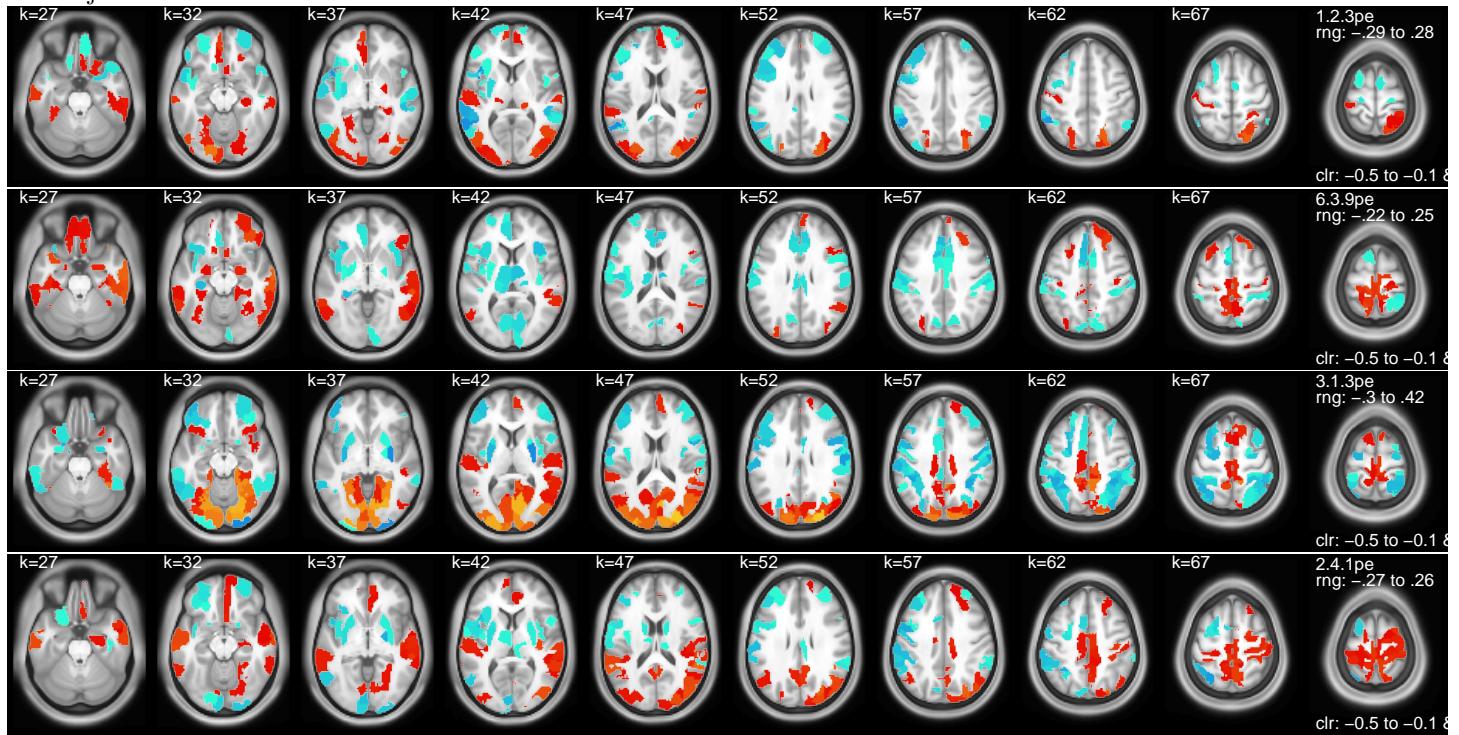
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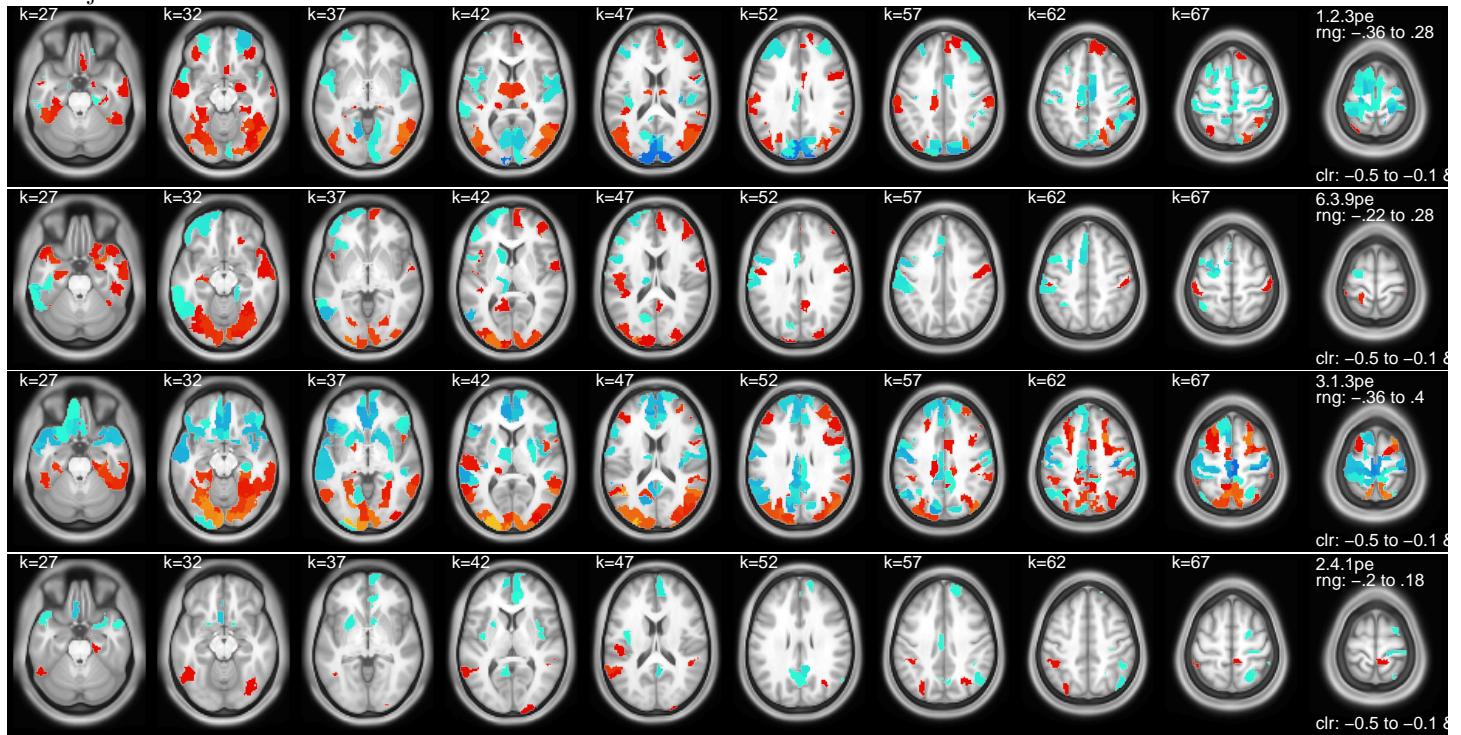
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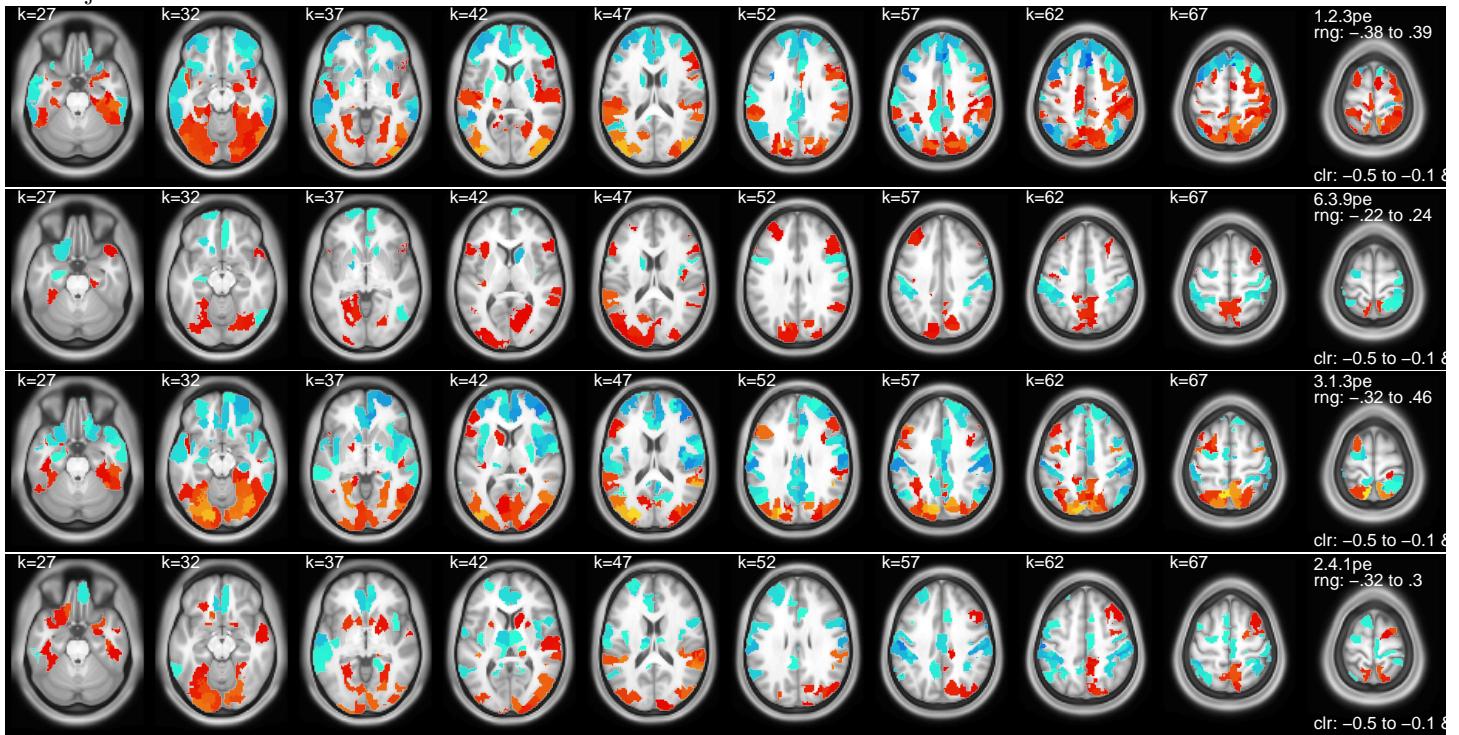
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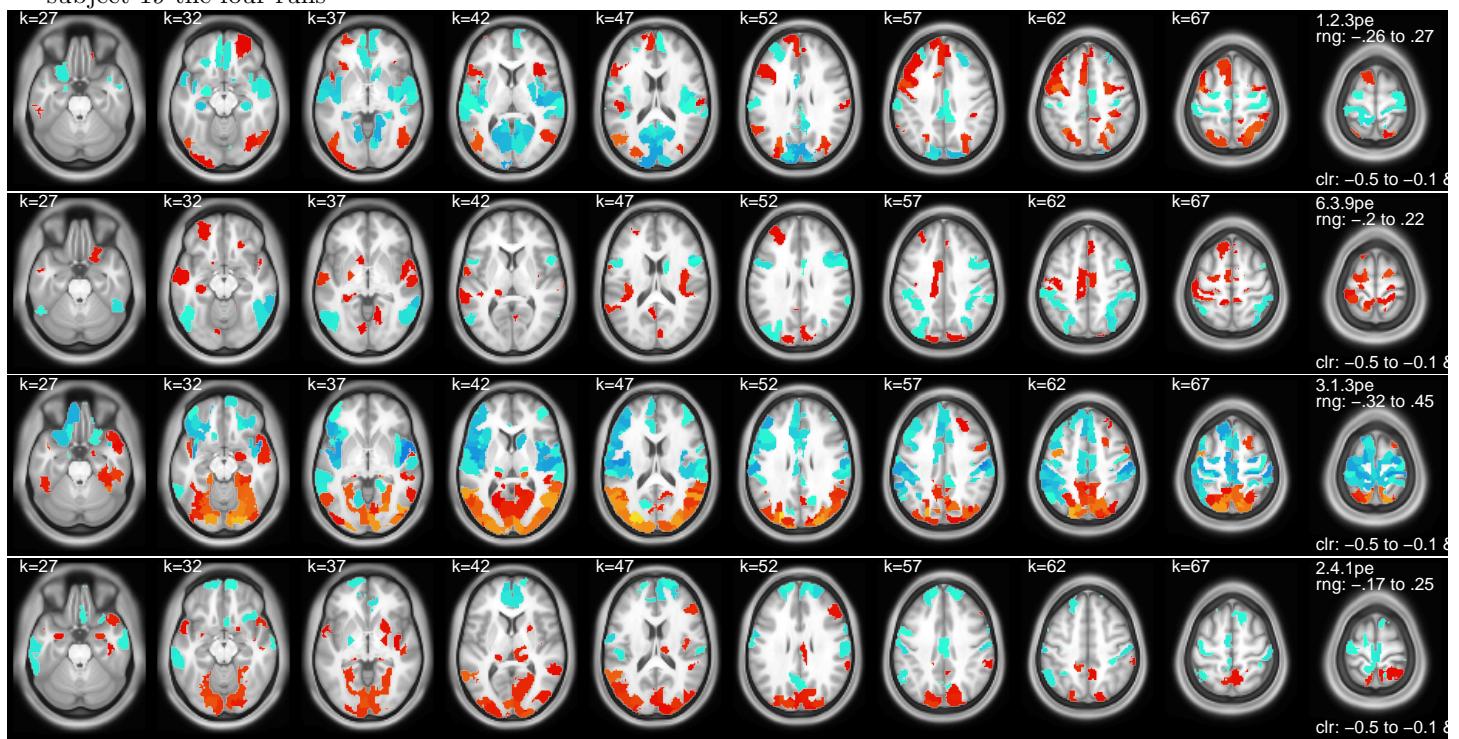
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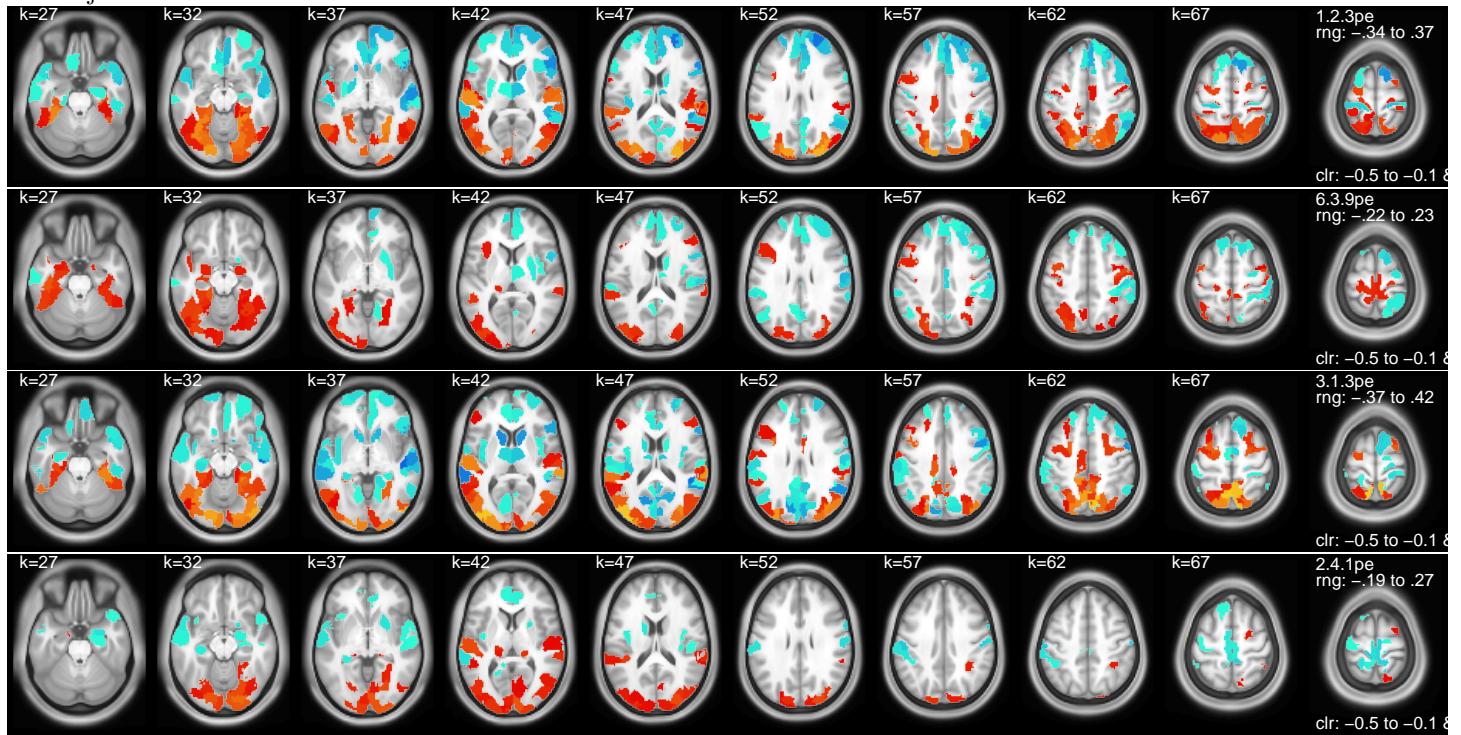
subject 18 the four runs



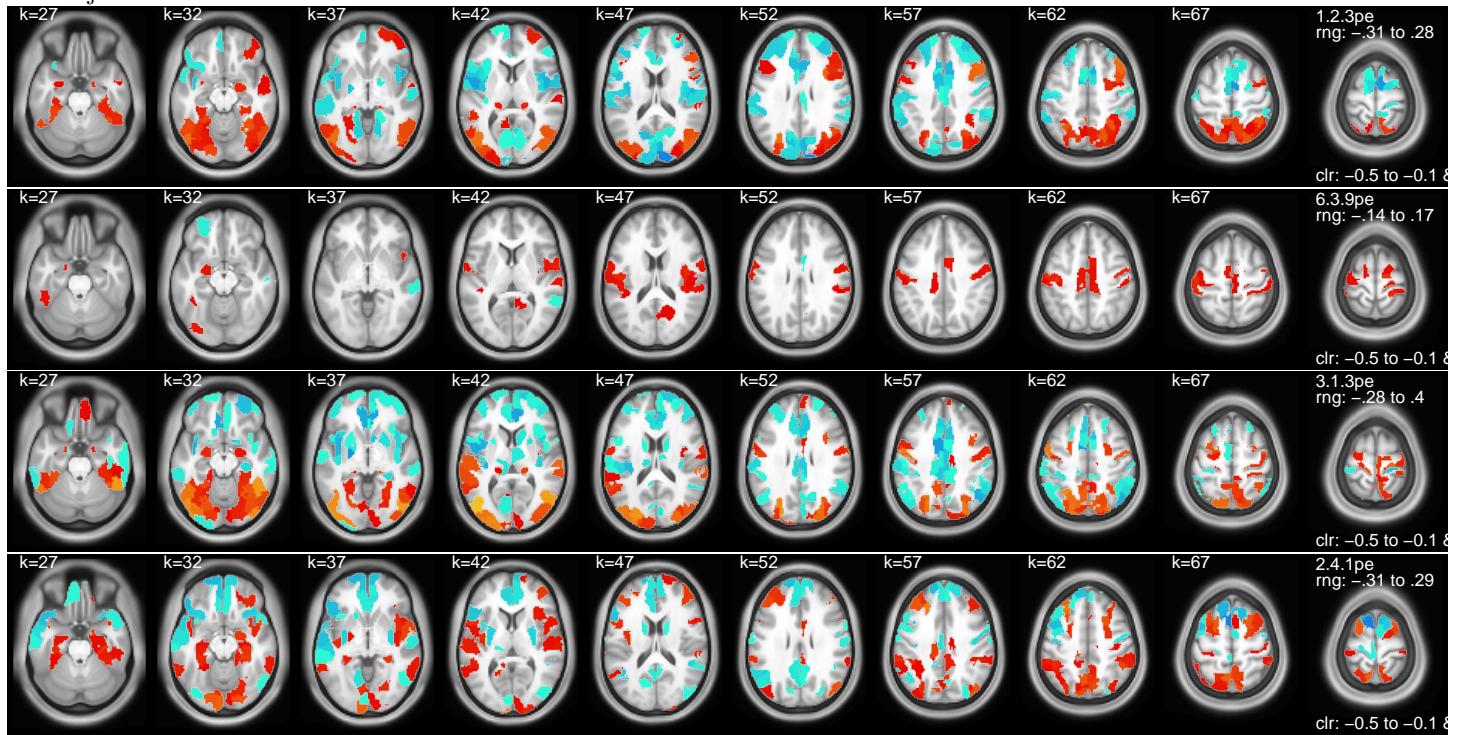
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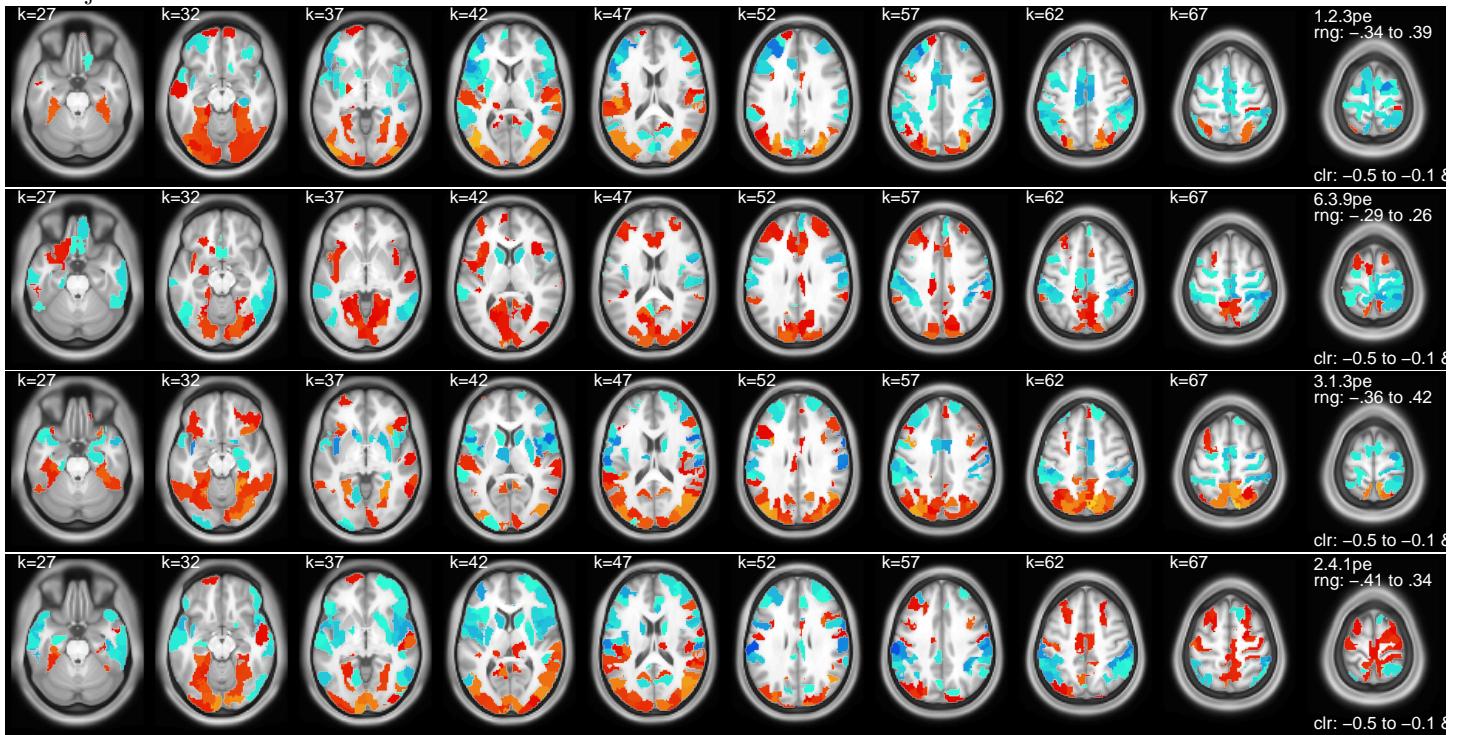
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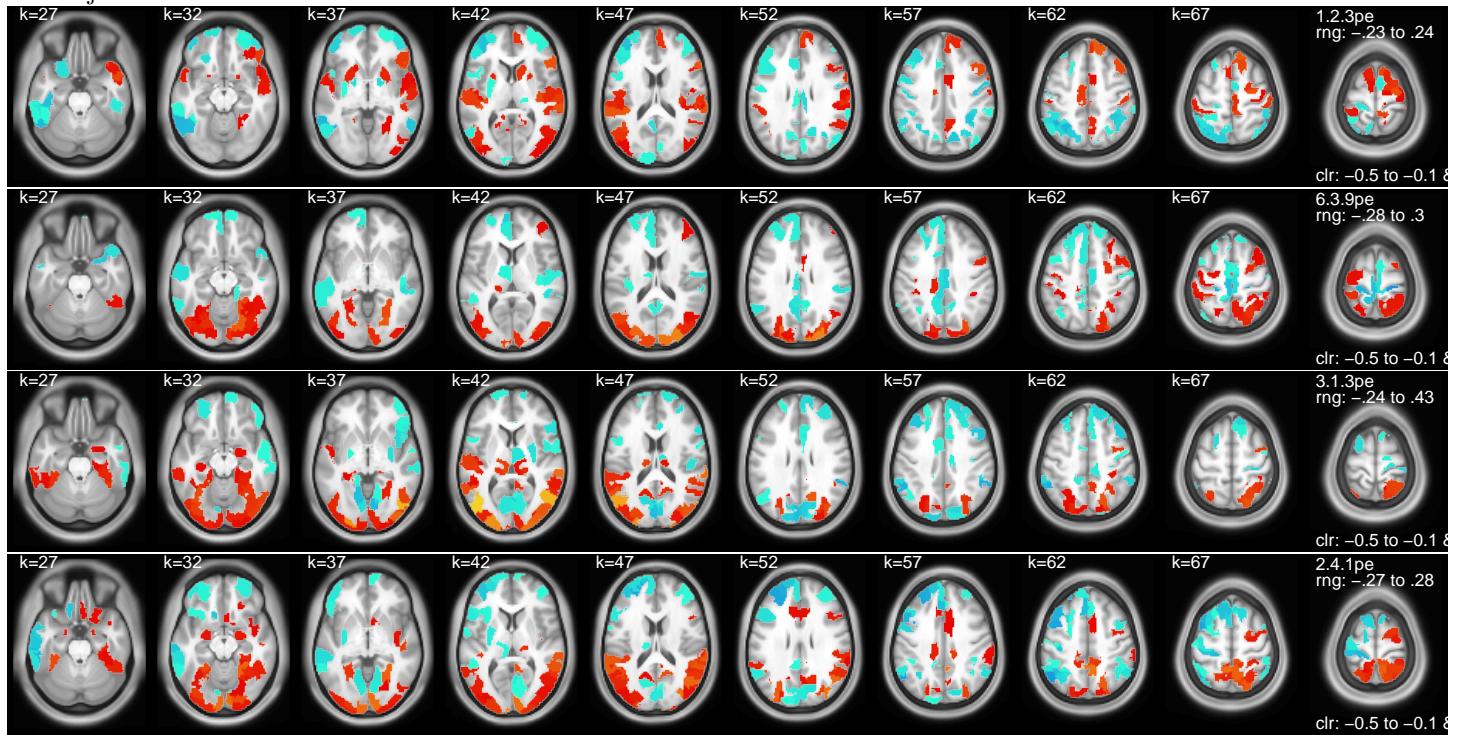
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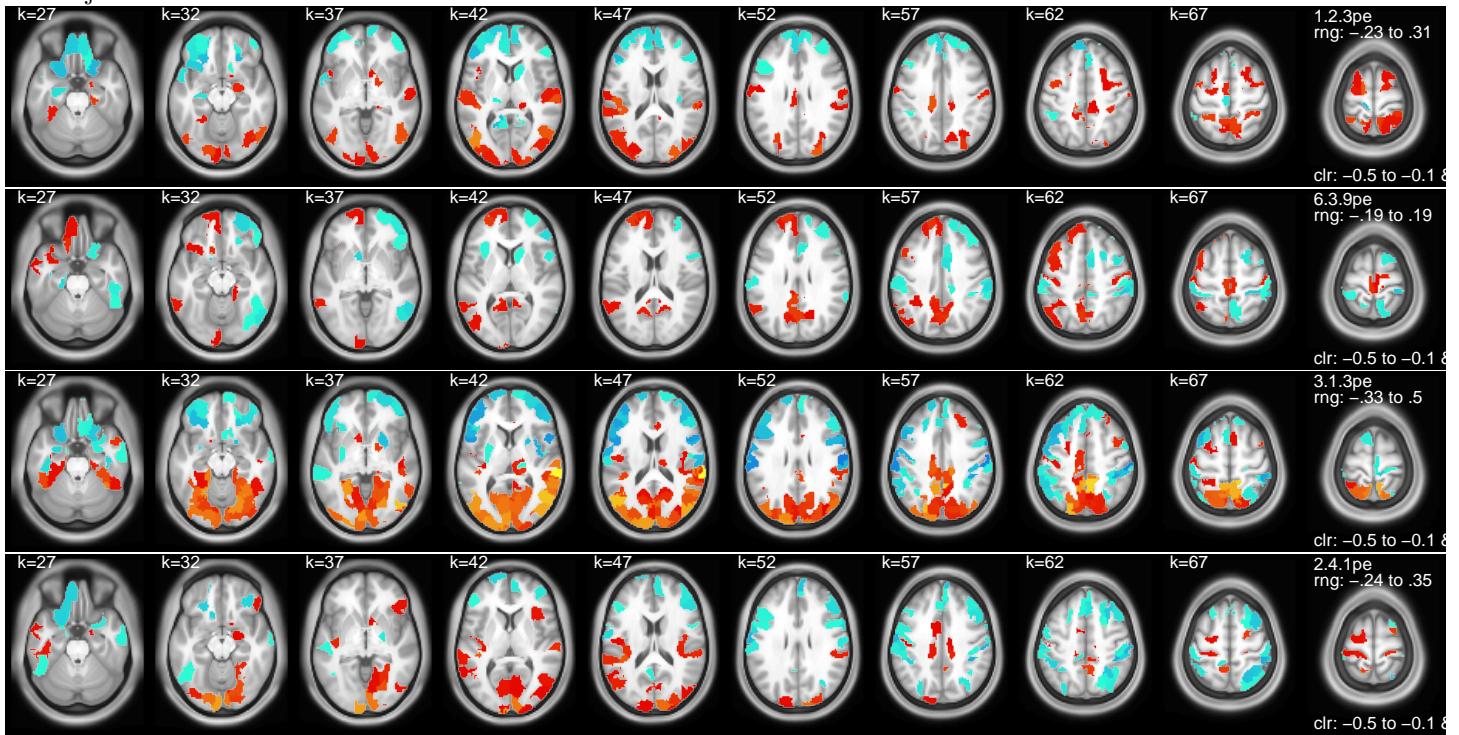
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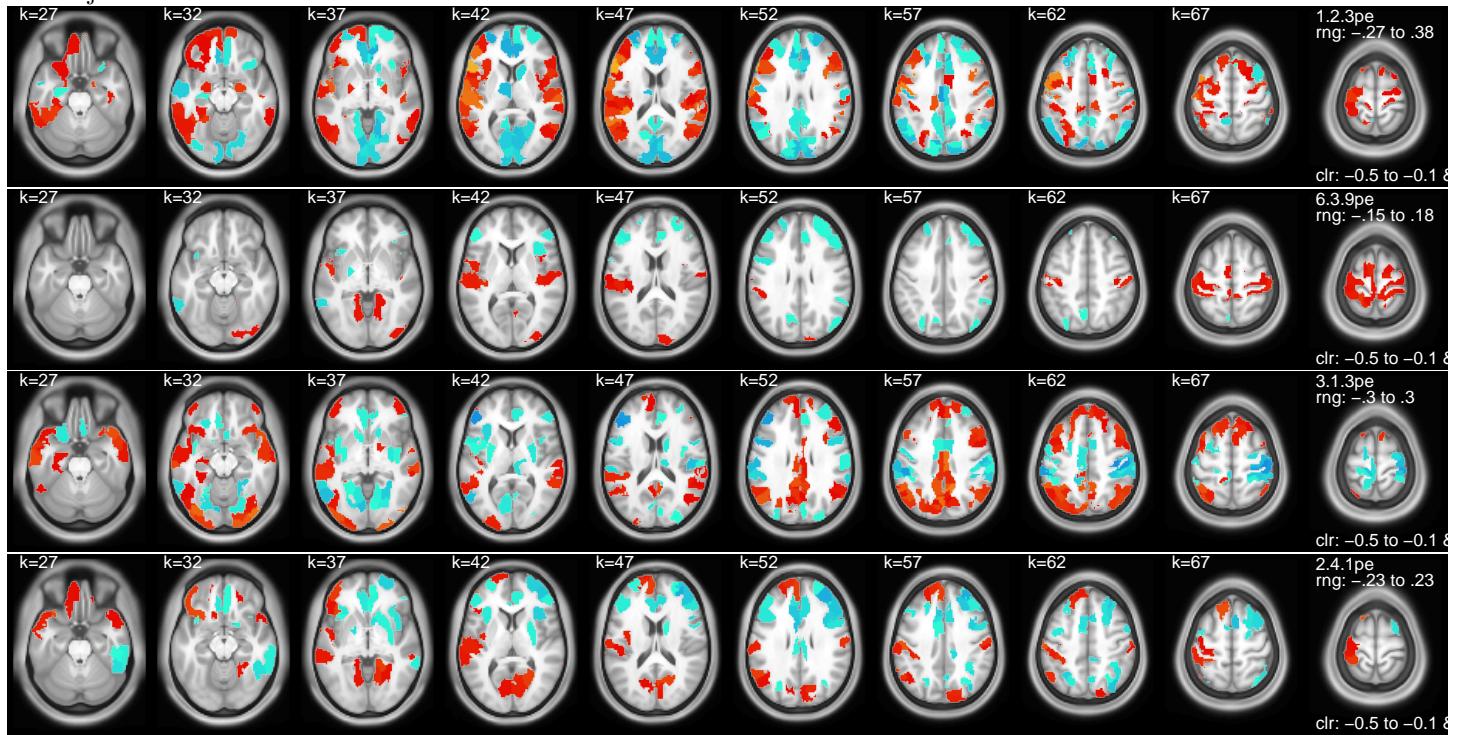
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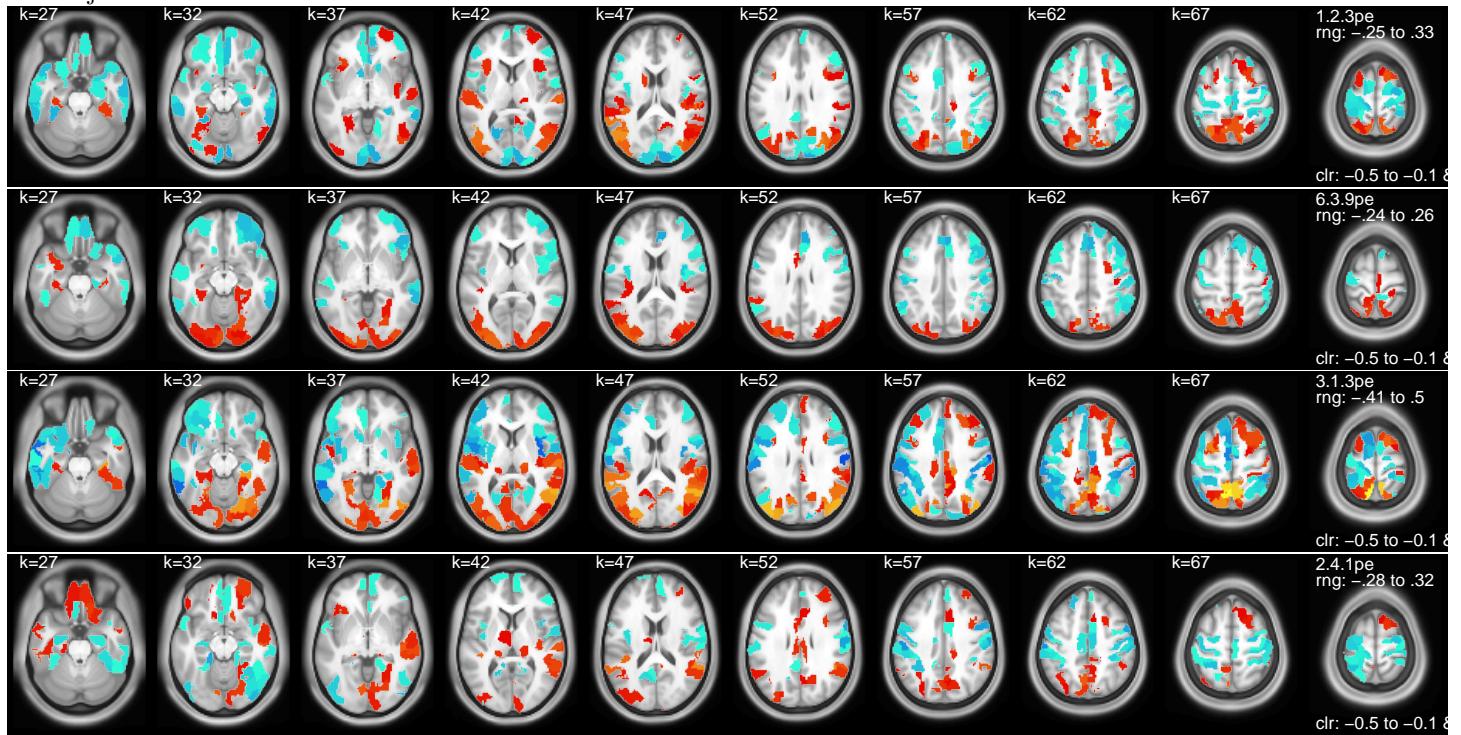
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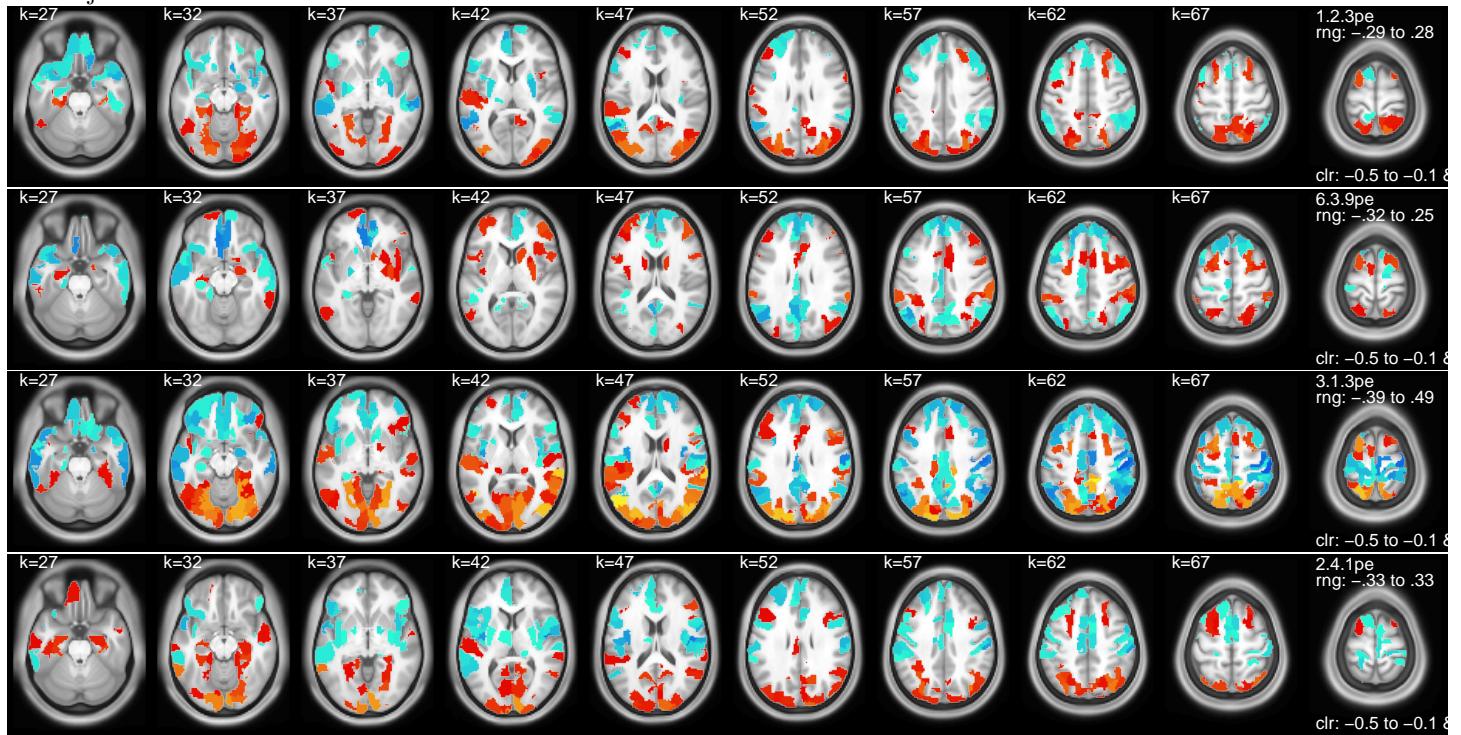
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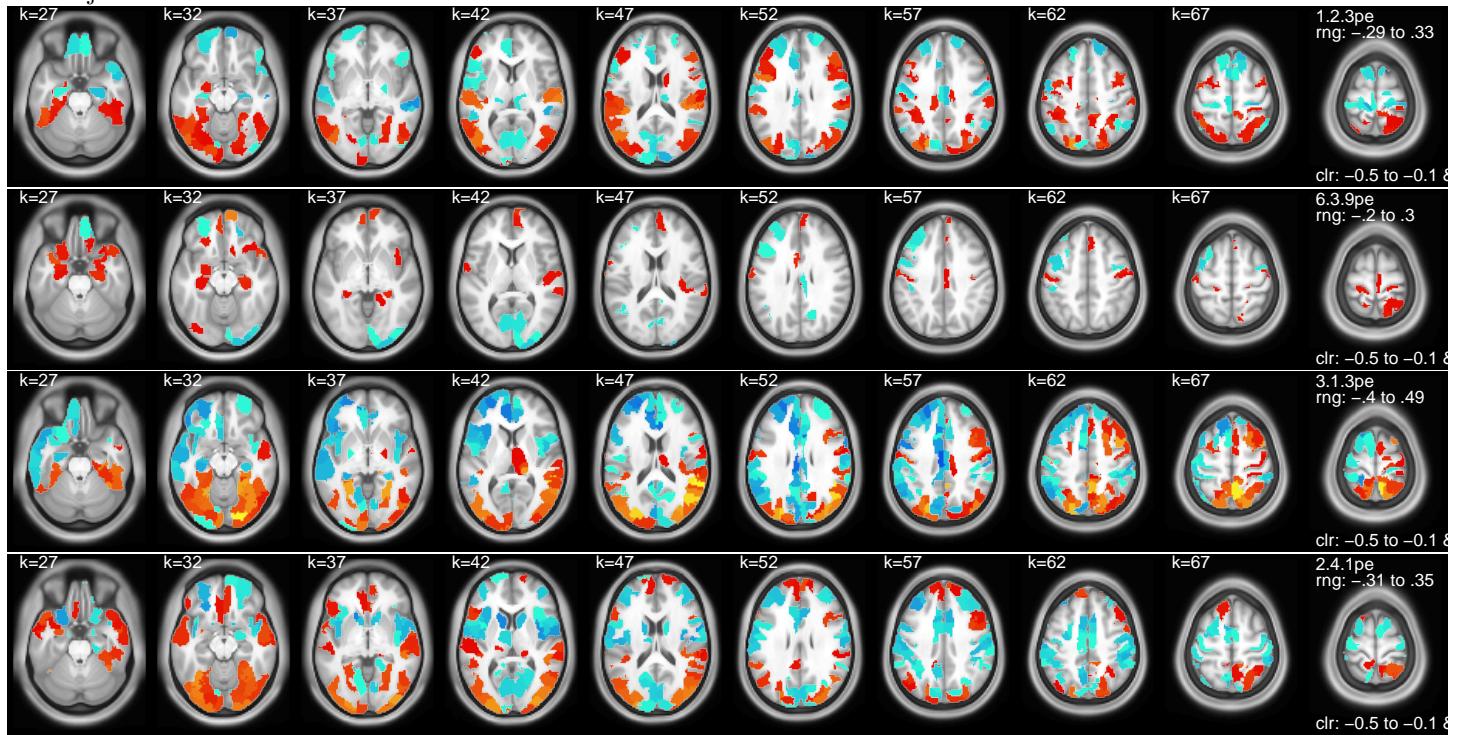
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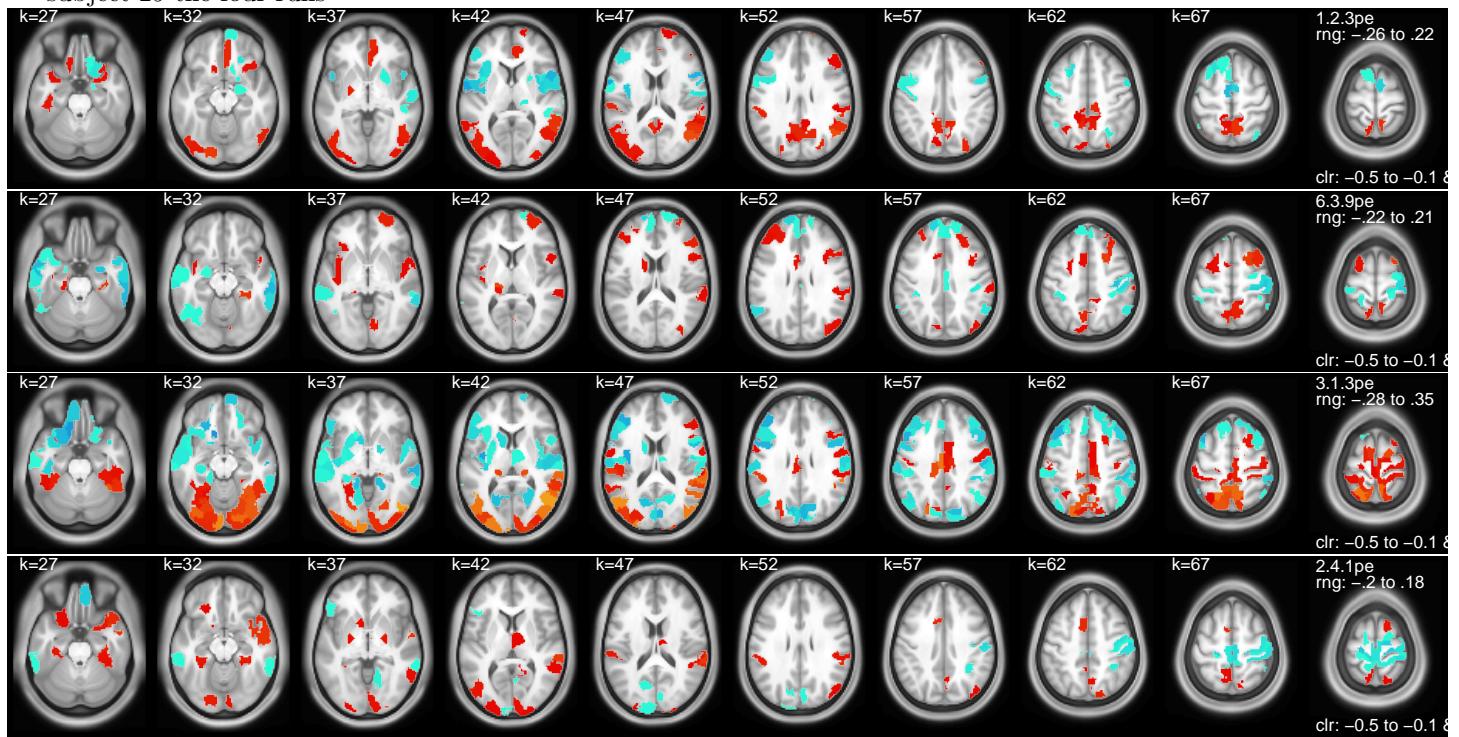
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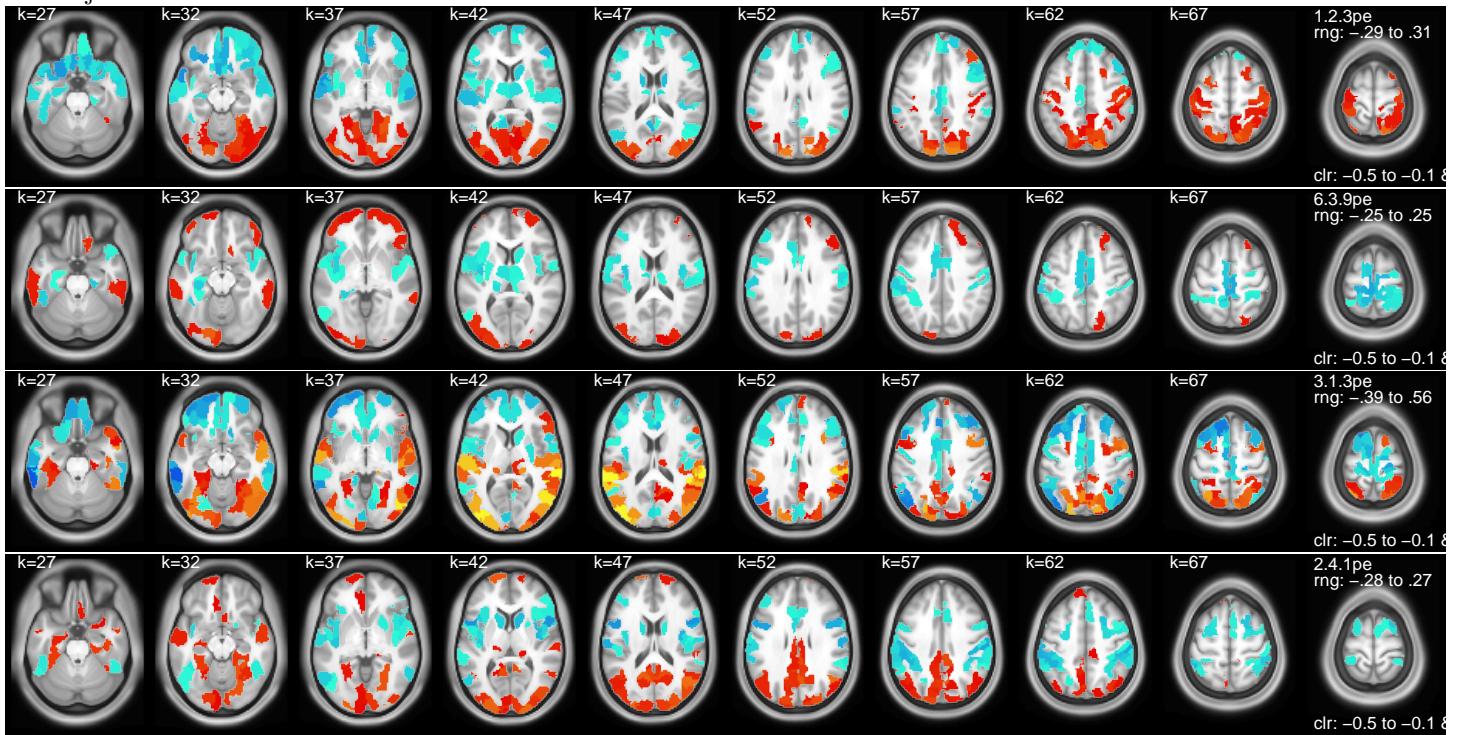
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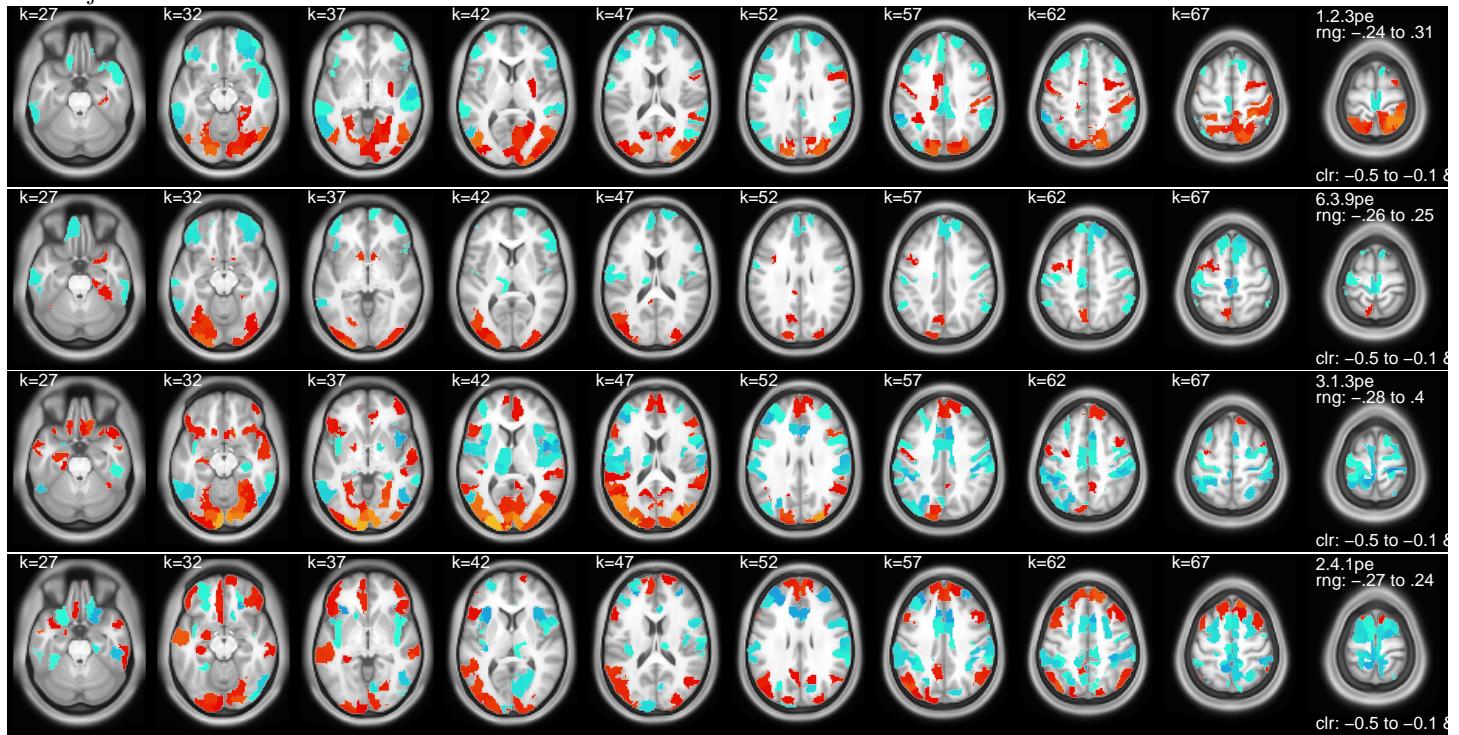
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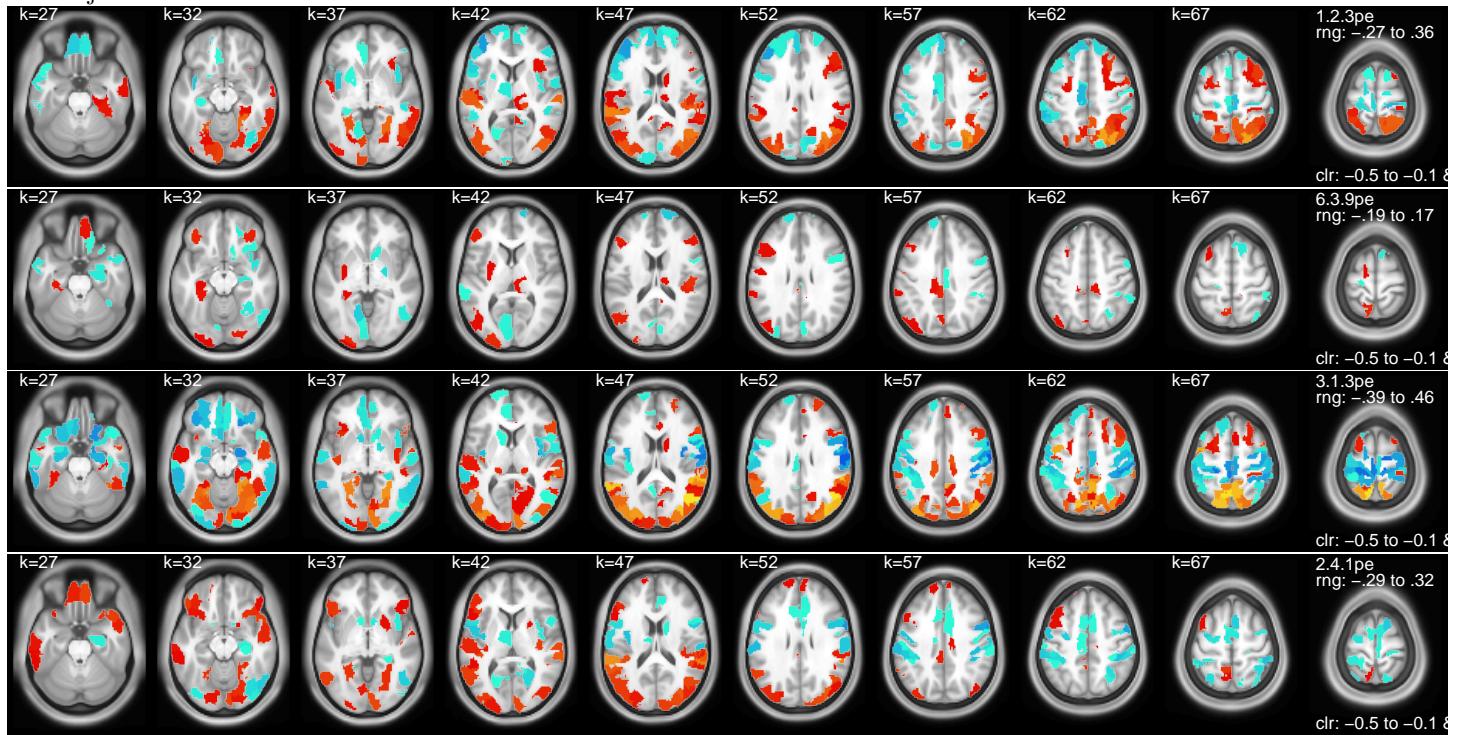
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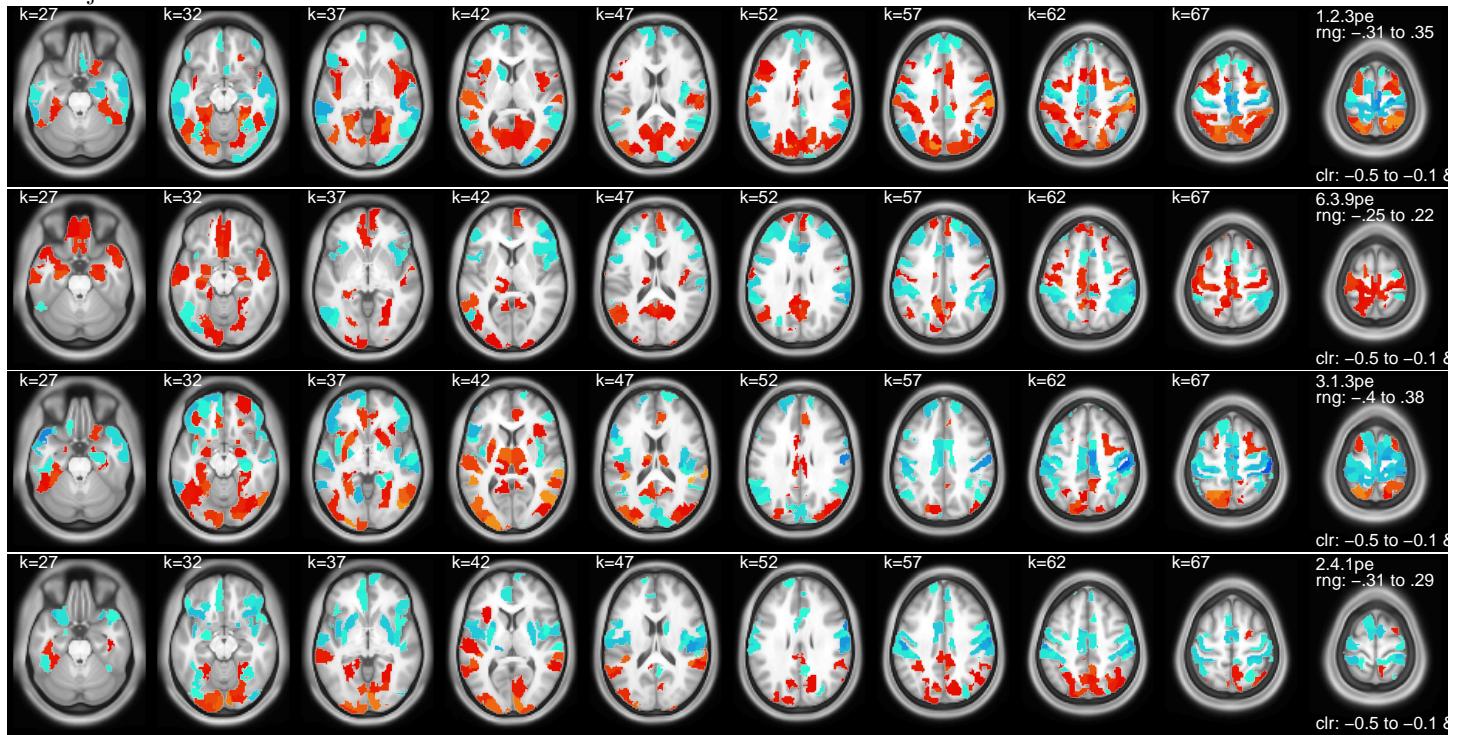
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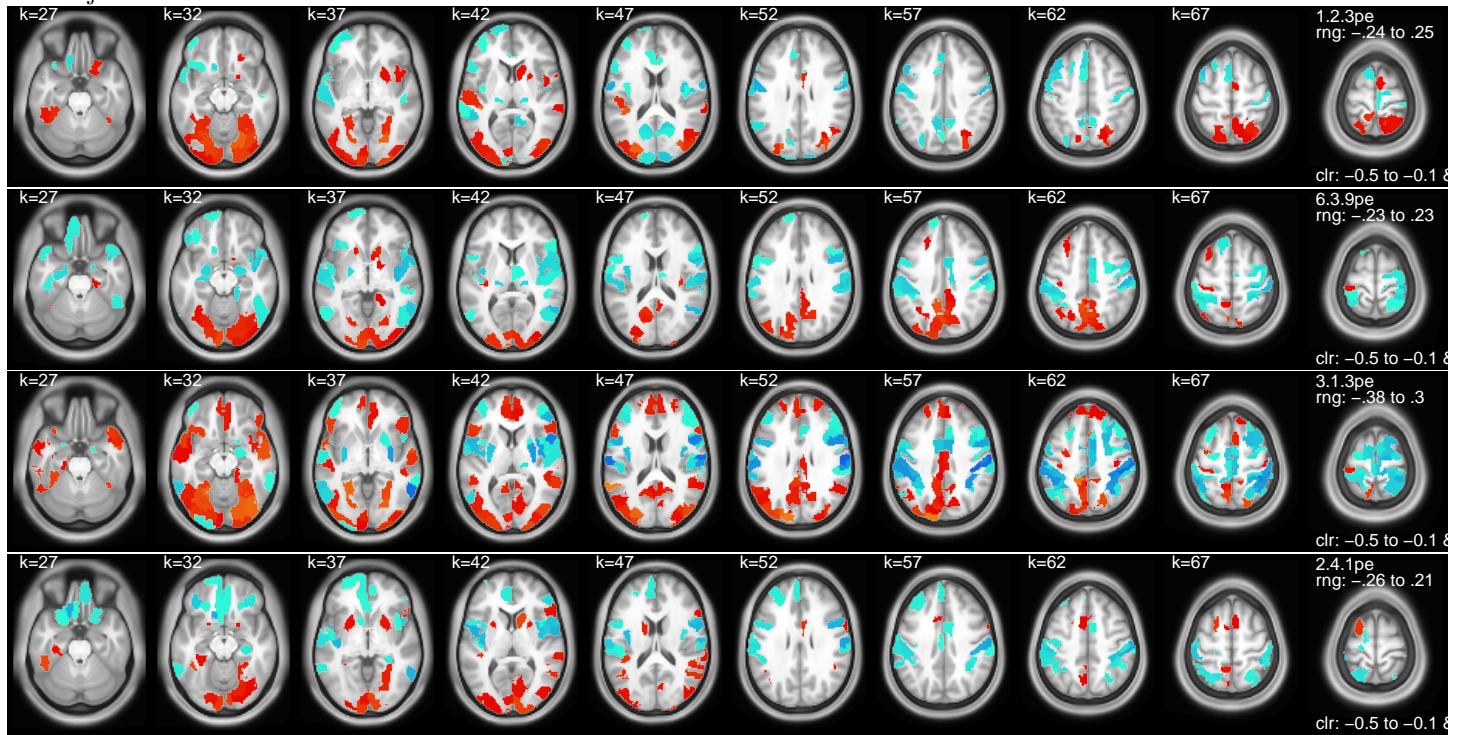
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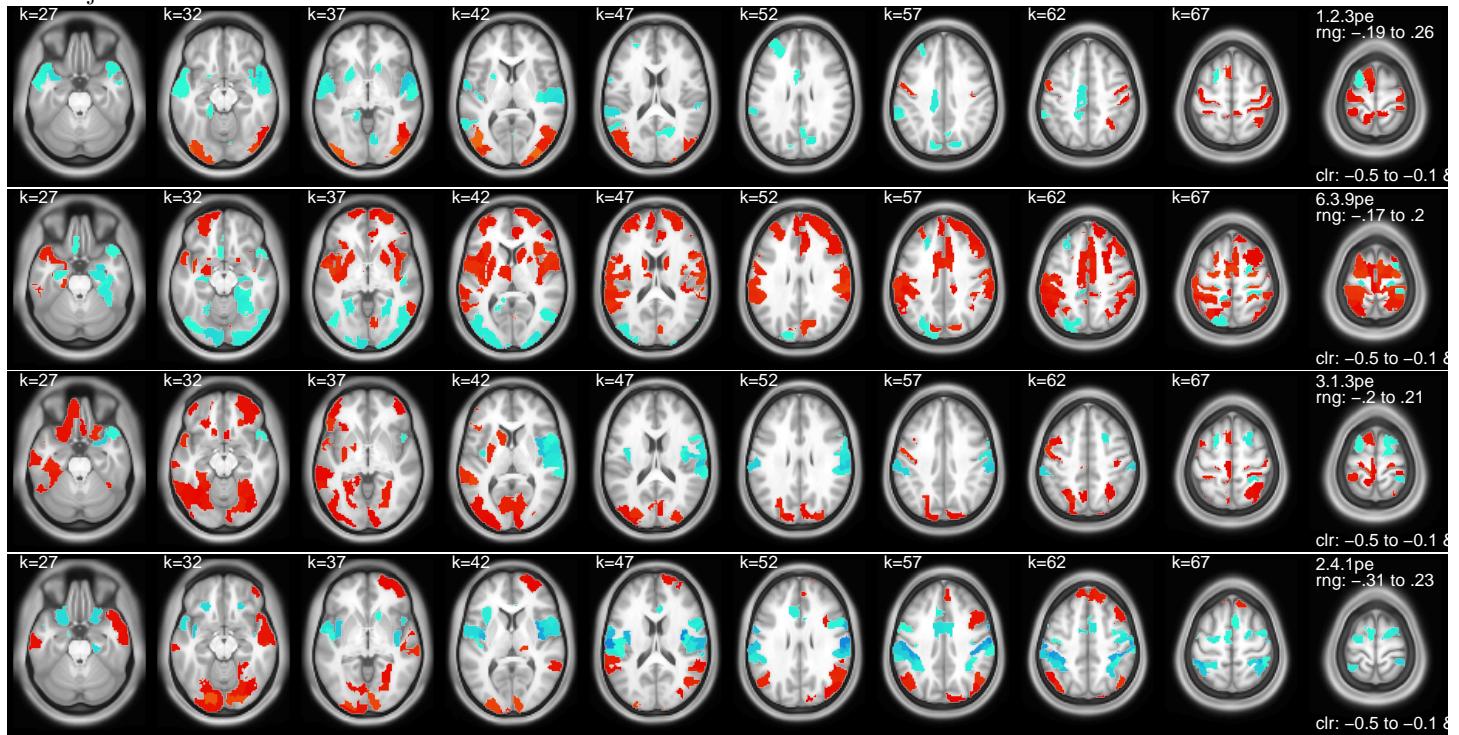
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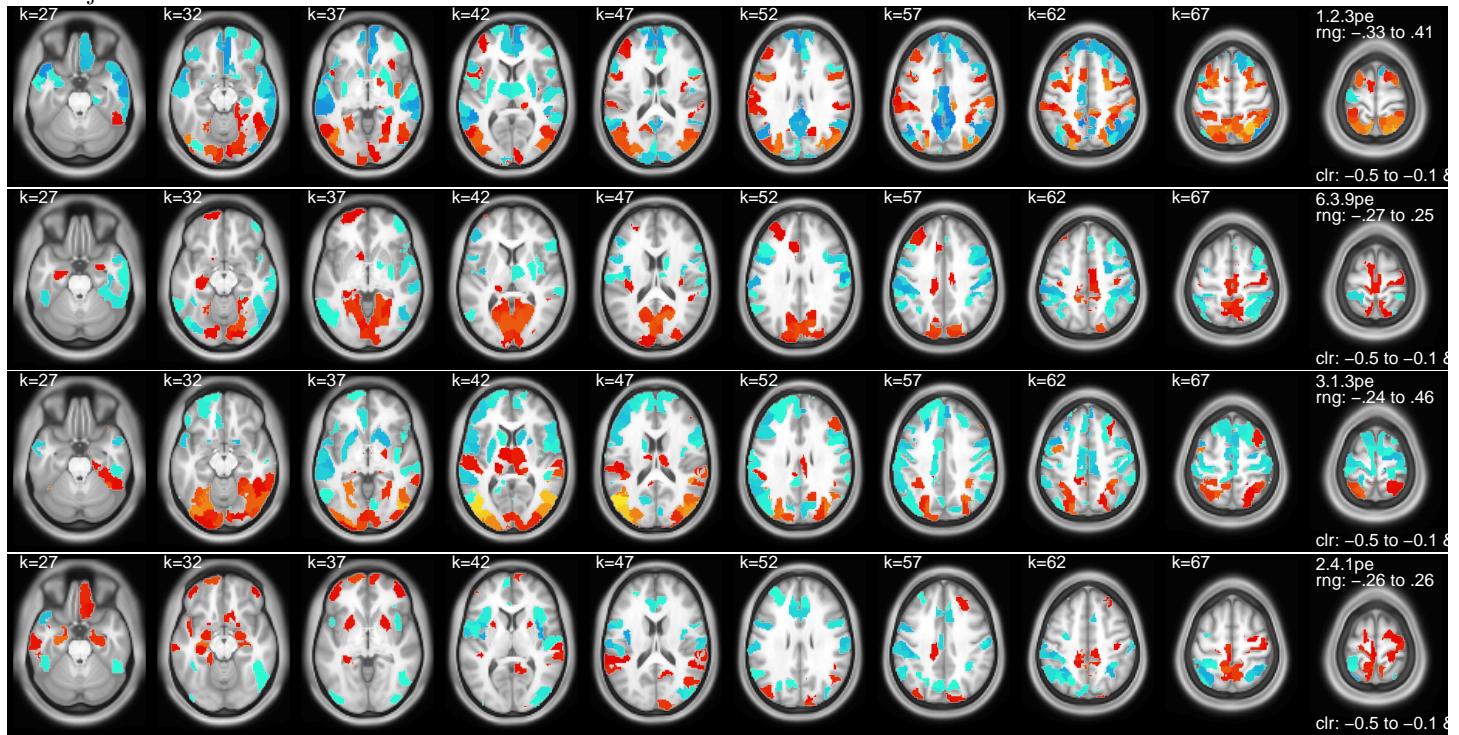
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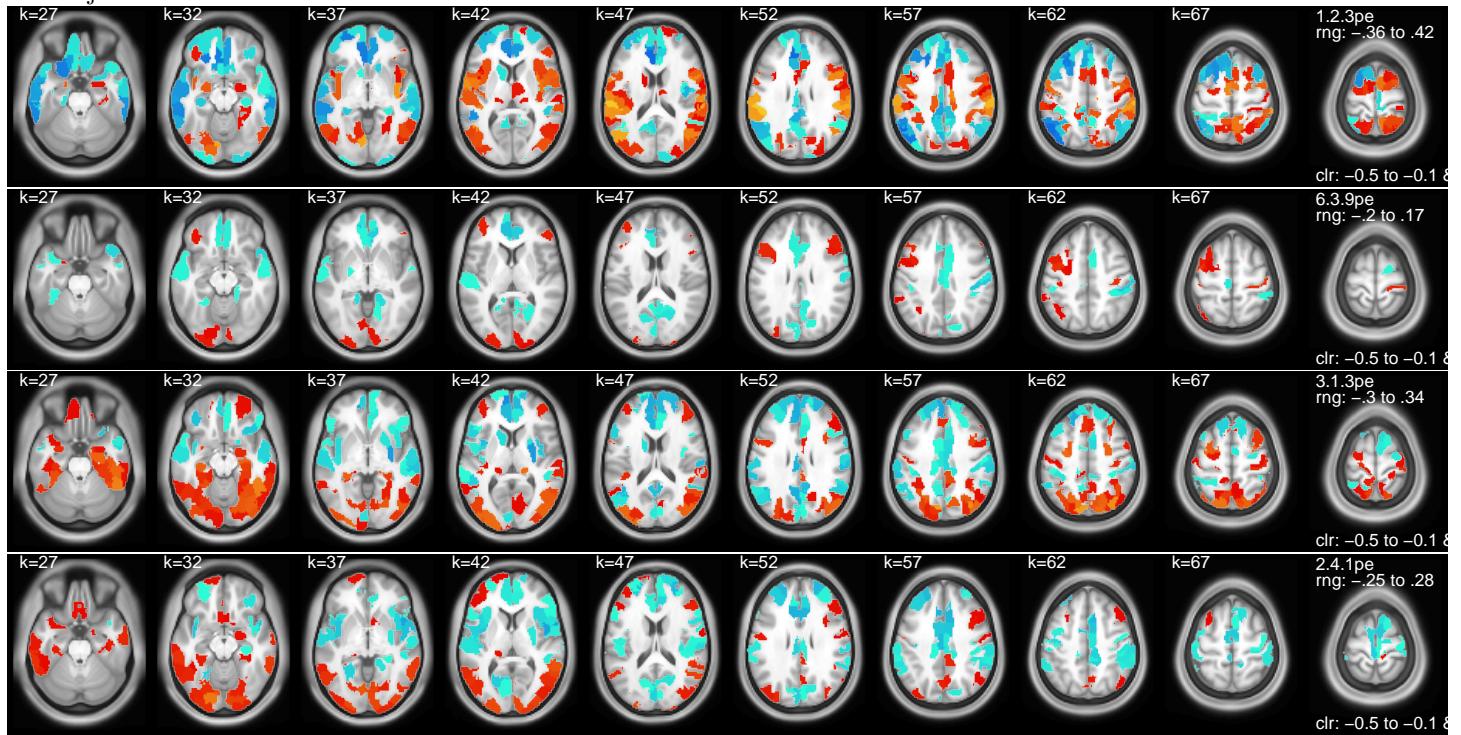
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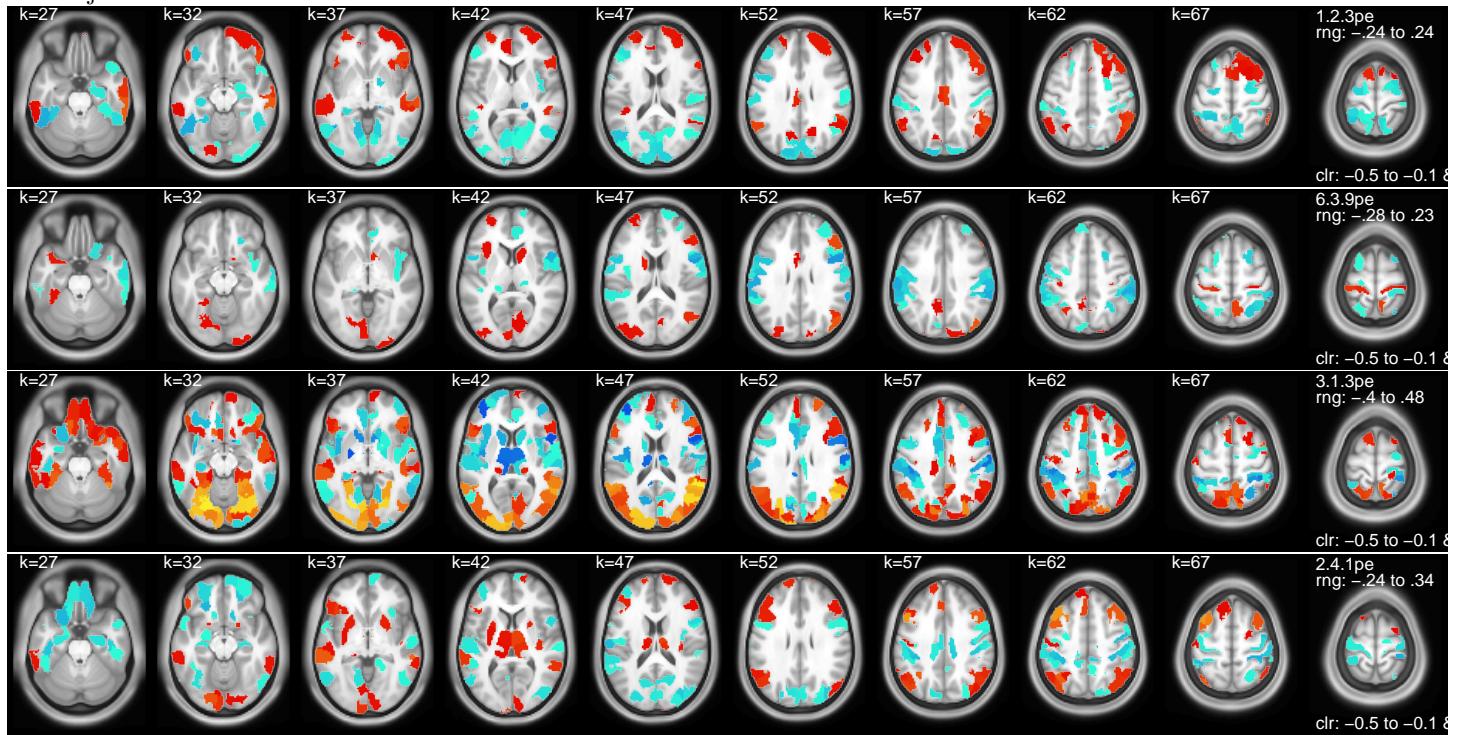
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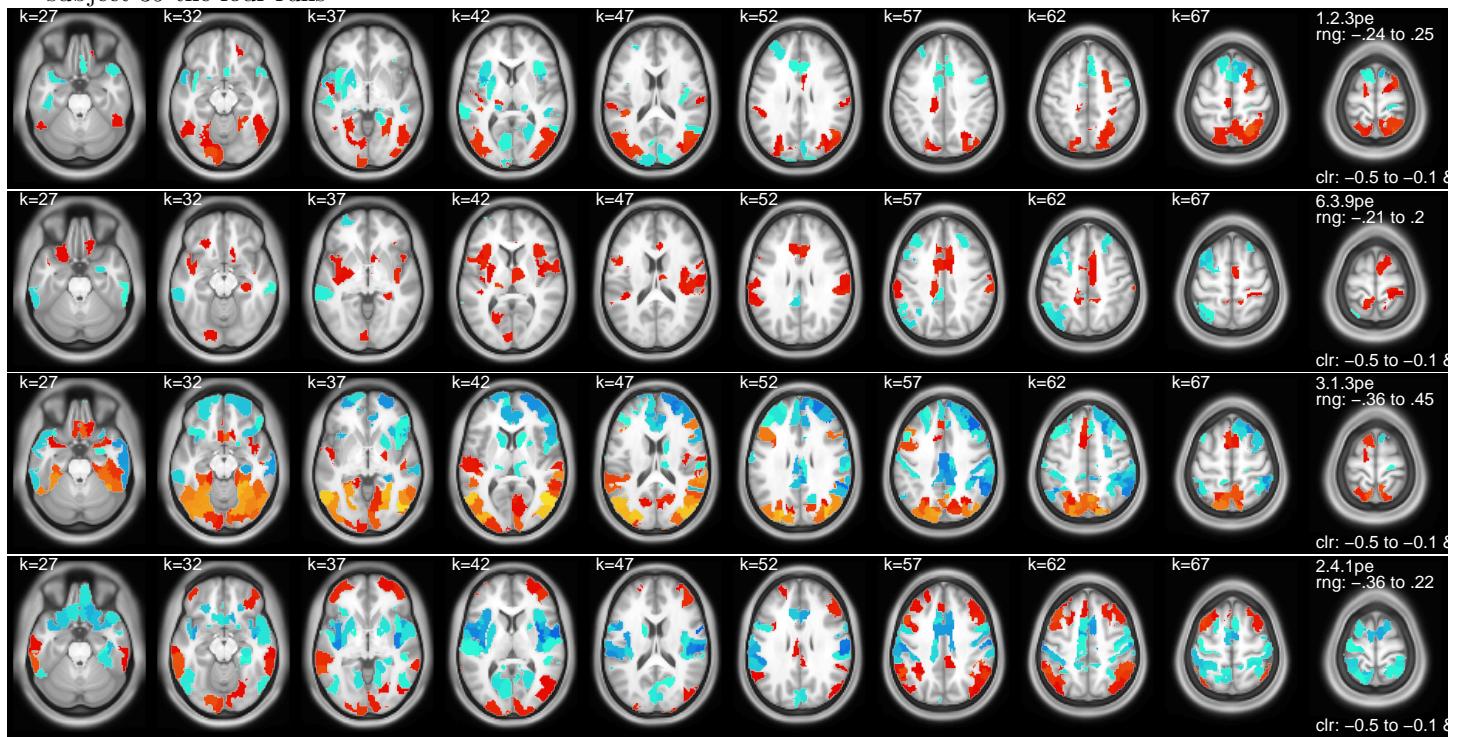
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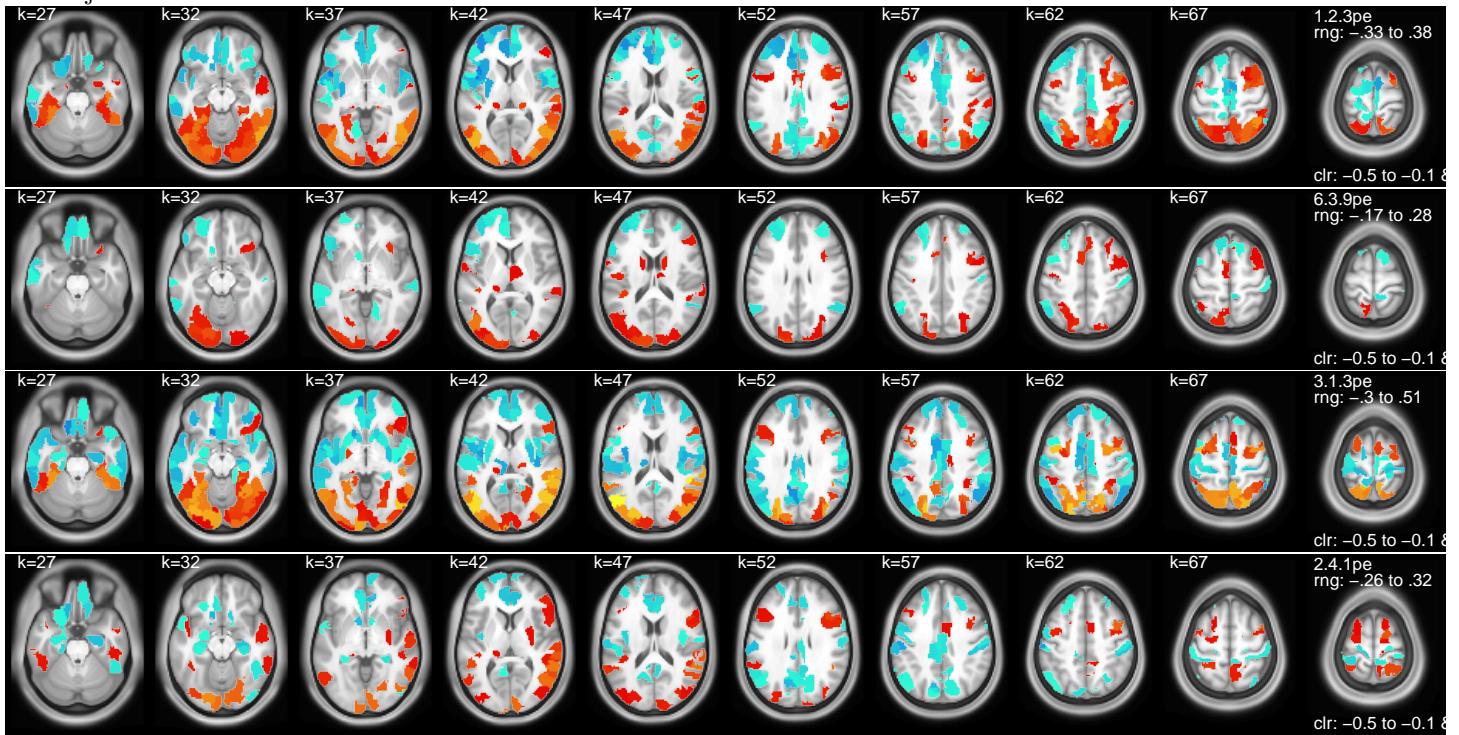
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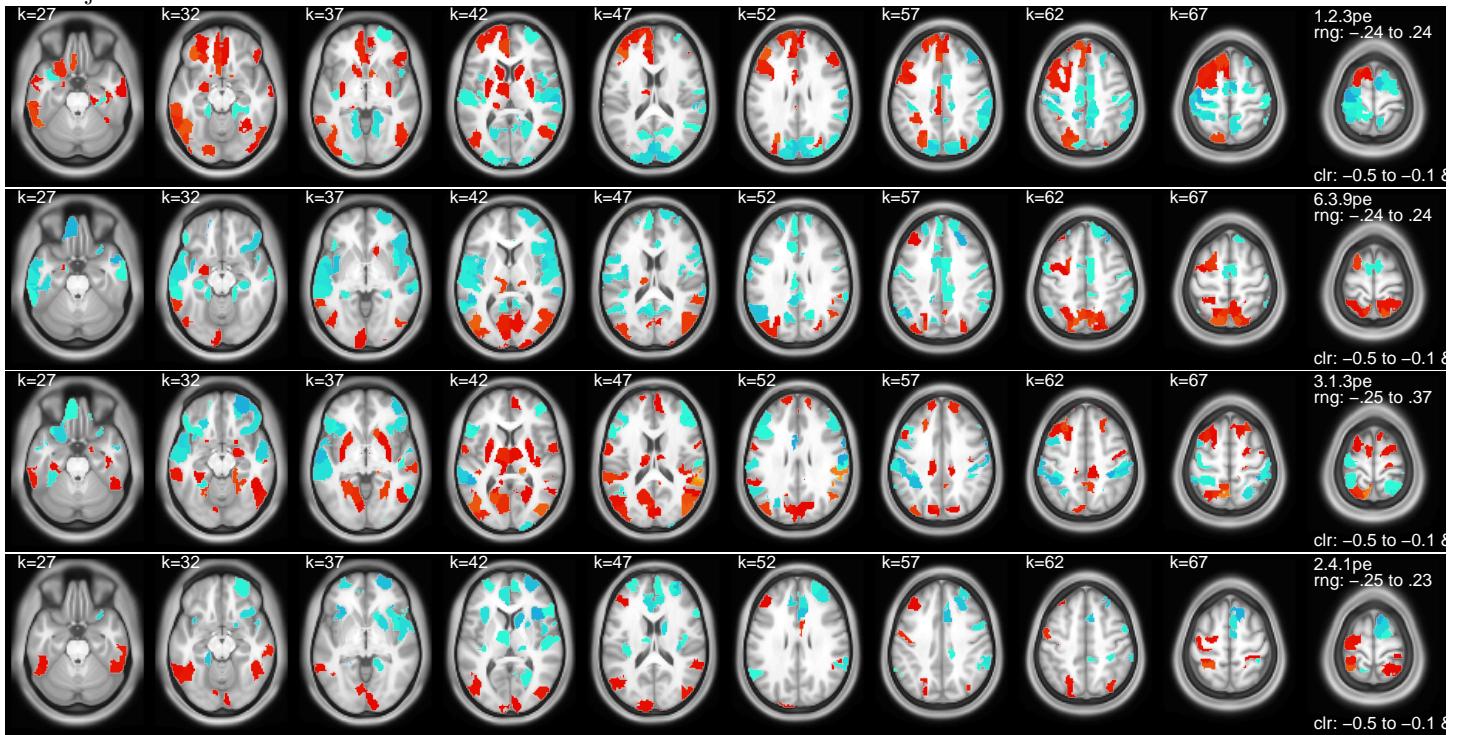
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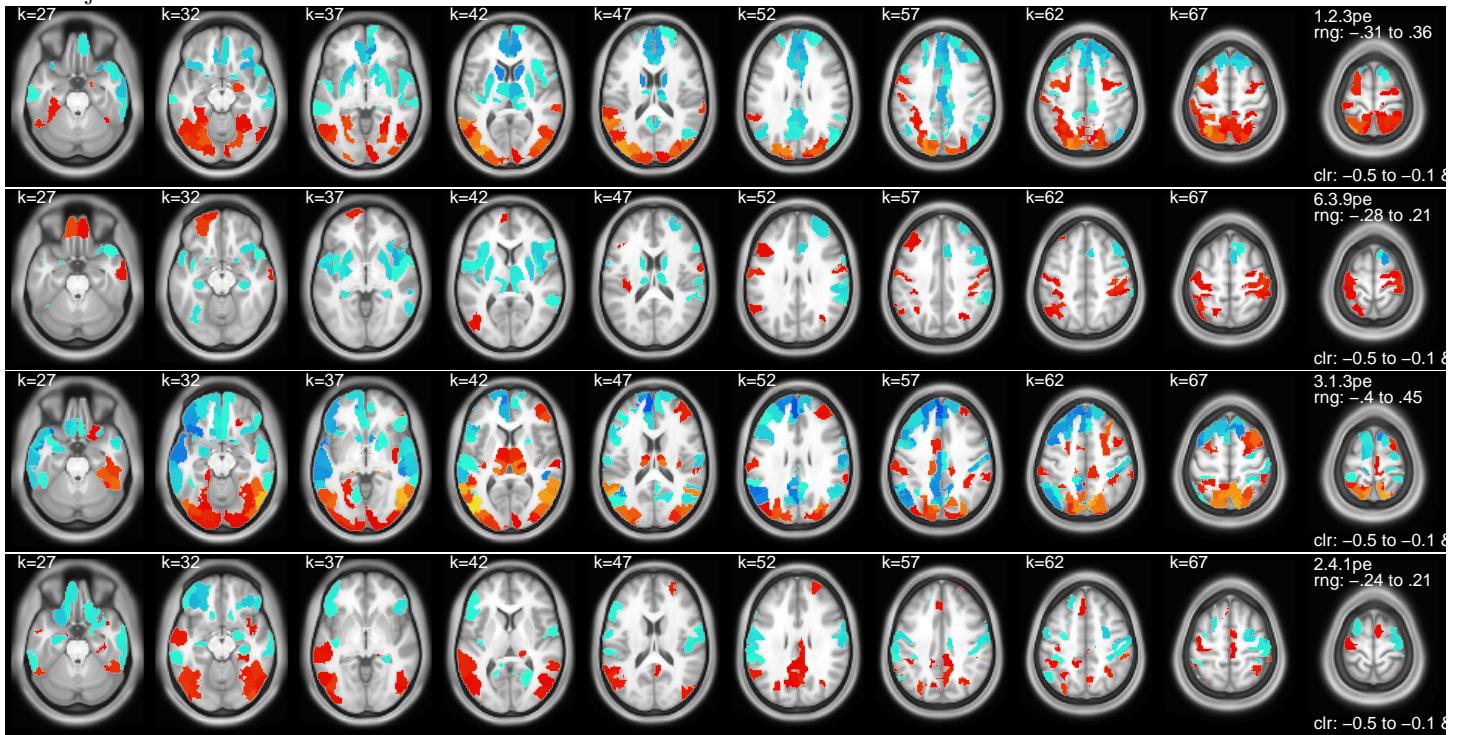
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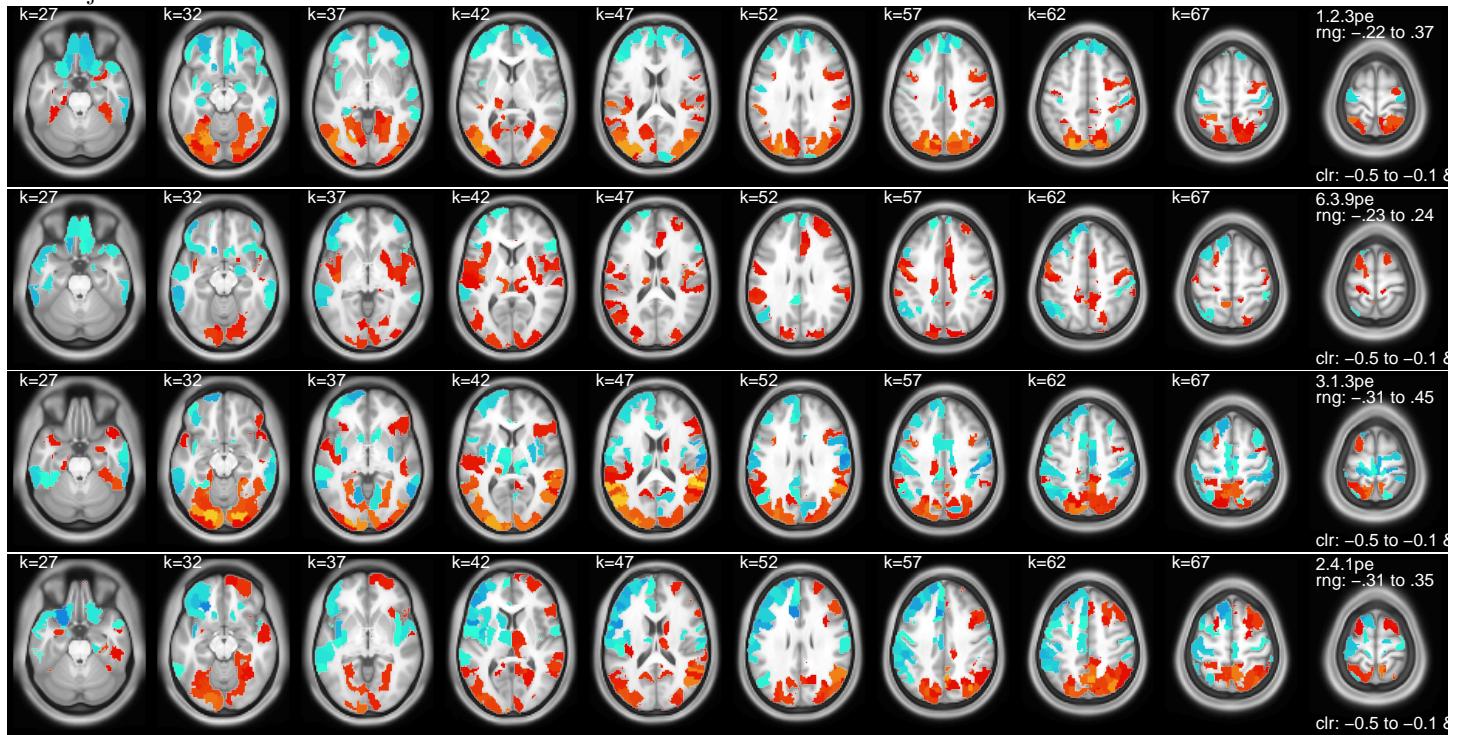
subject 41 the four runs



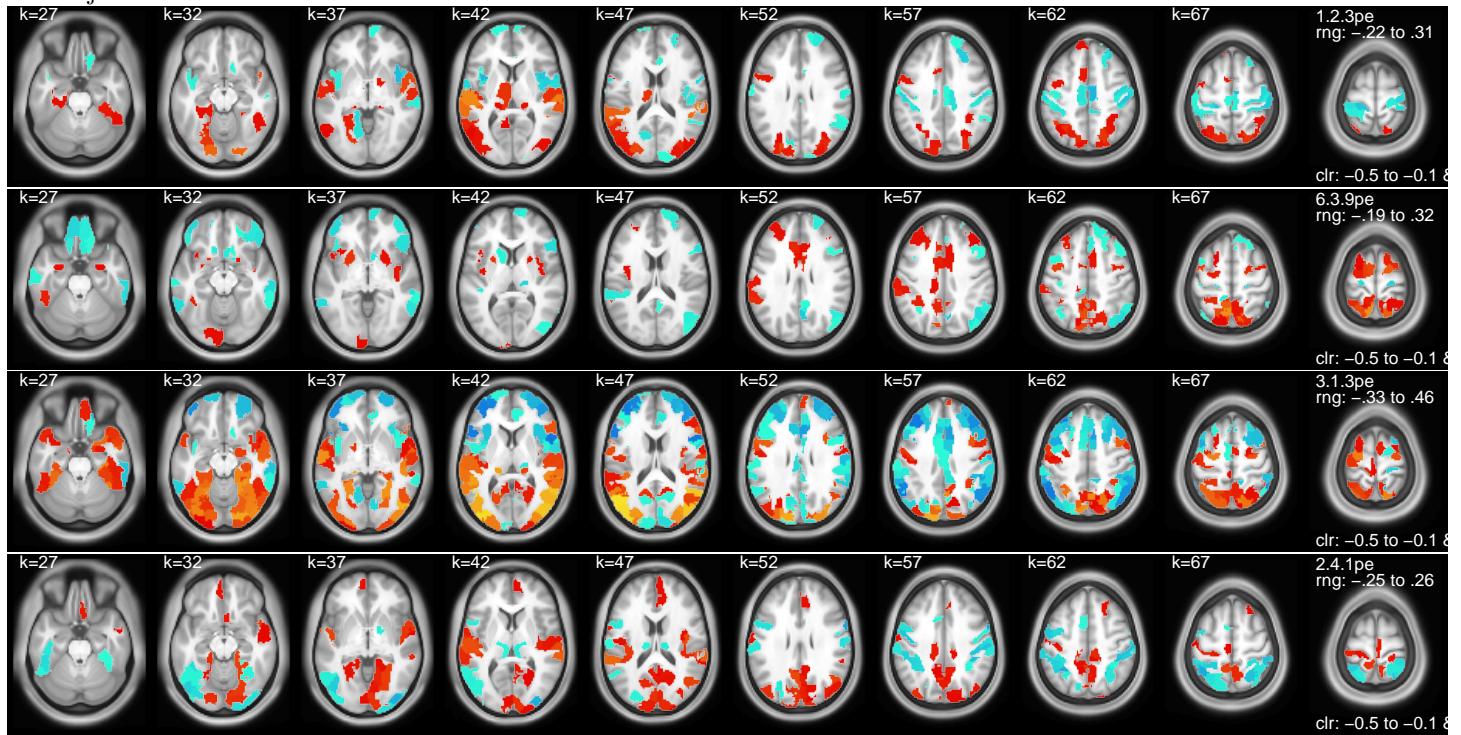
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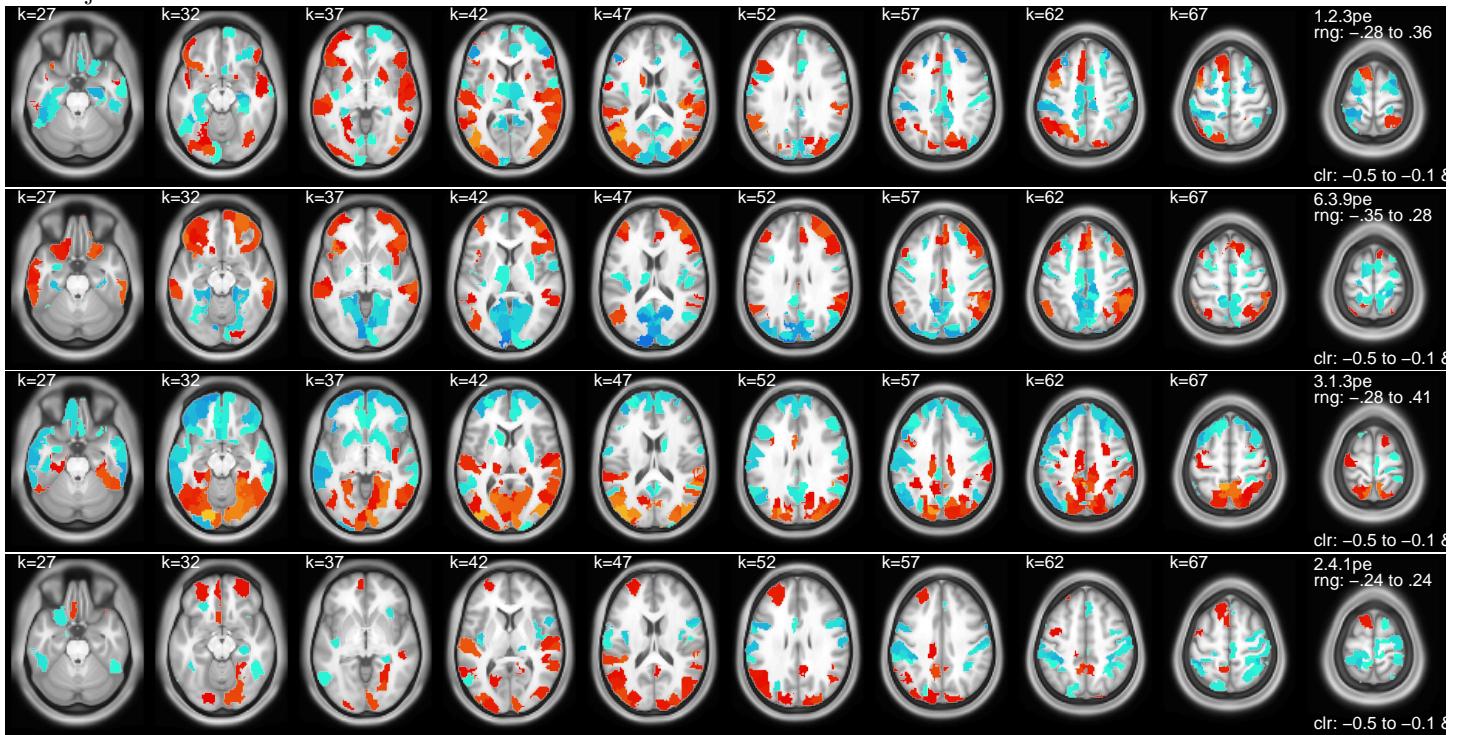
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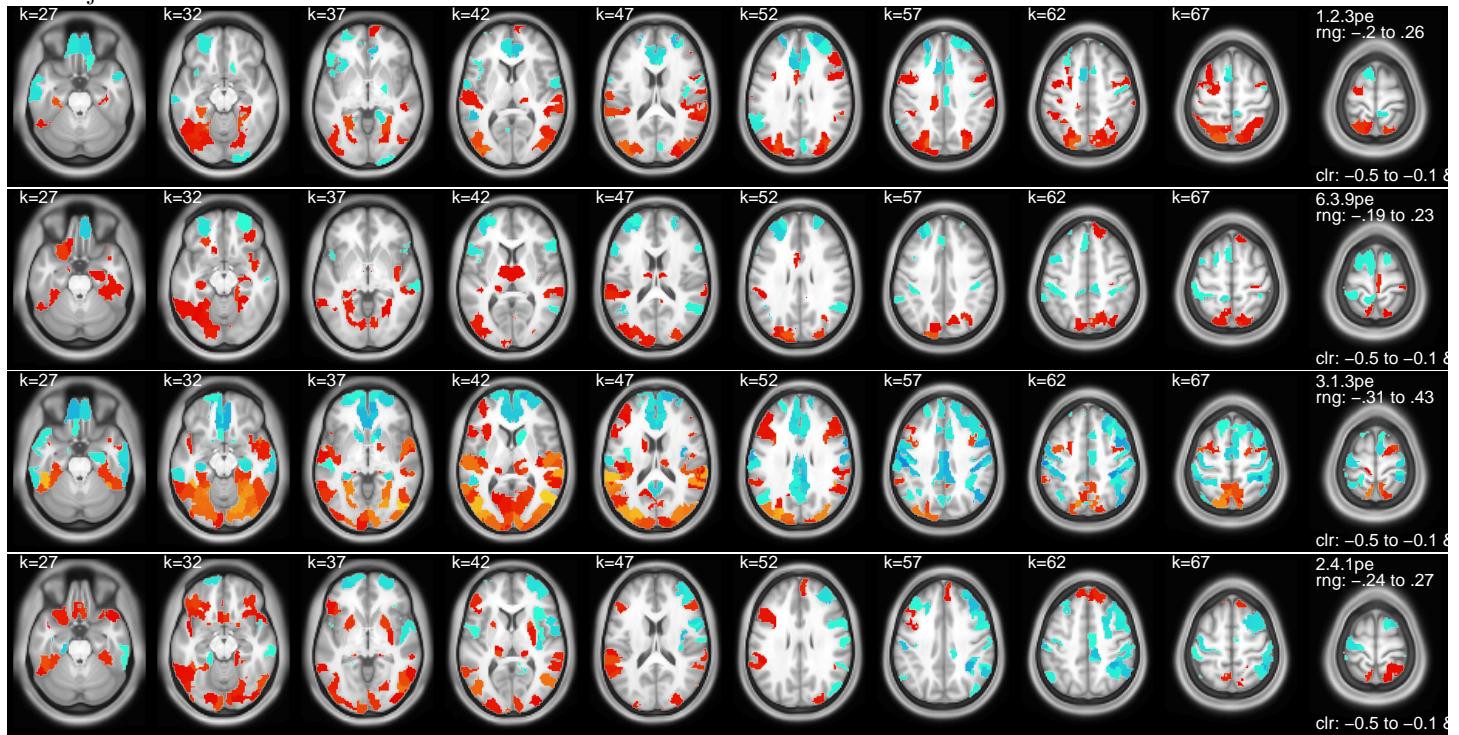
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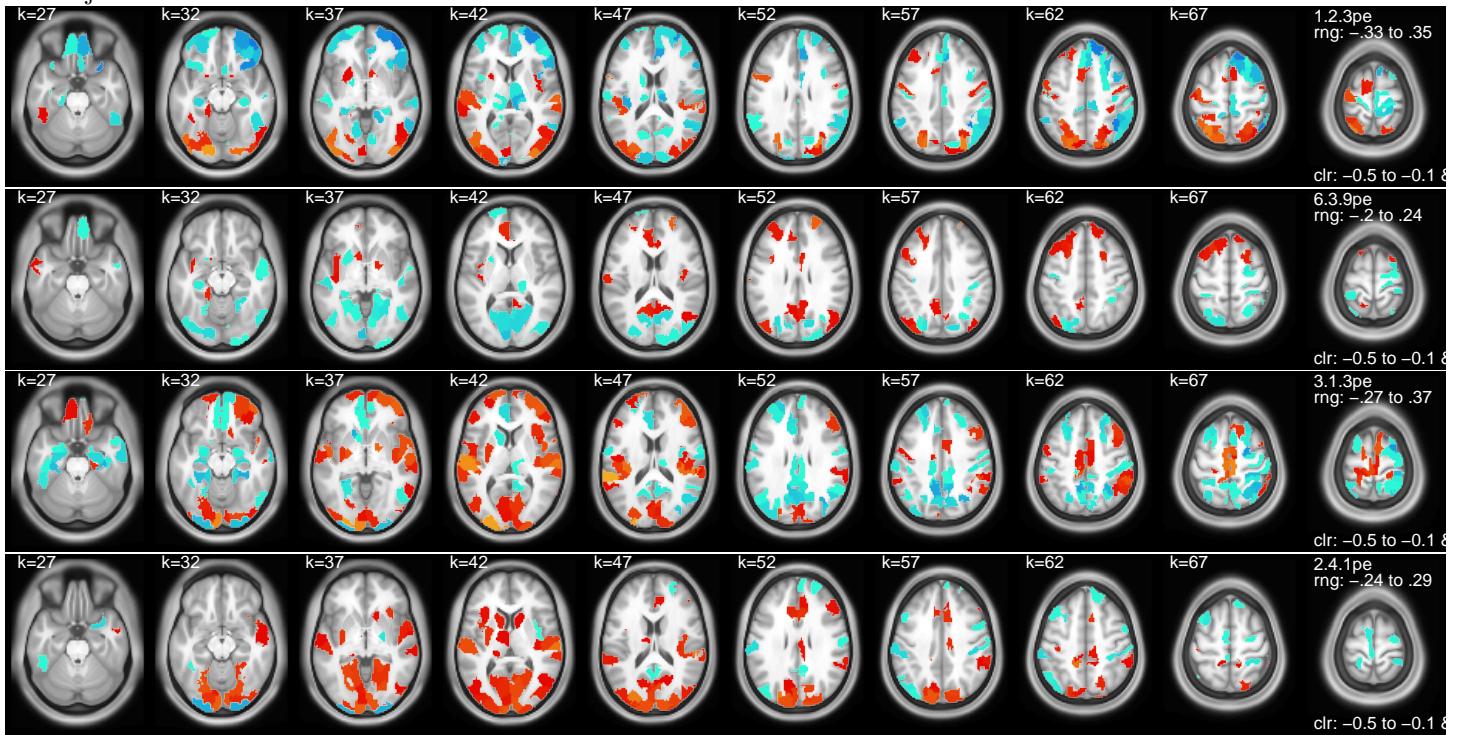
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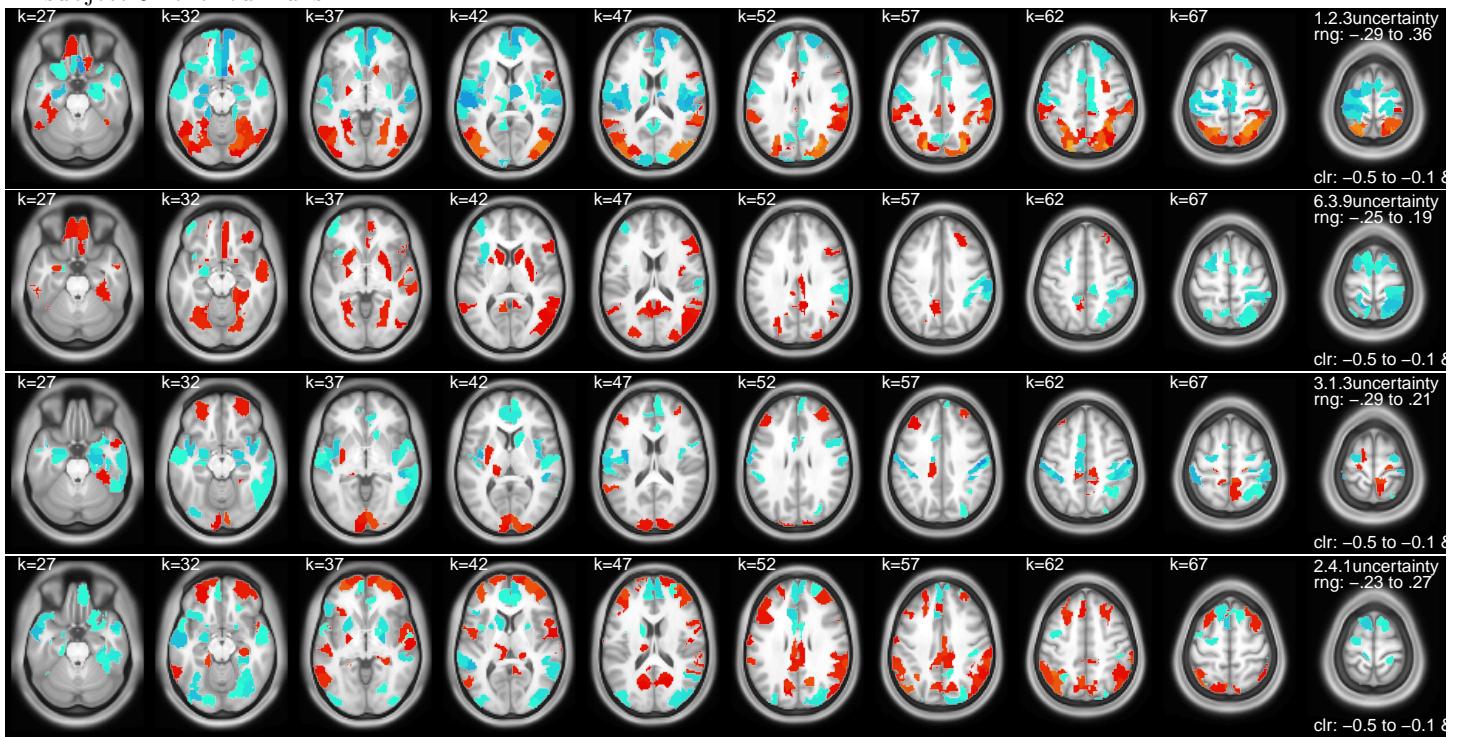
subject 46 the four runs



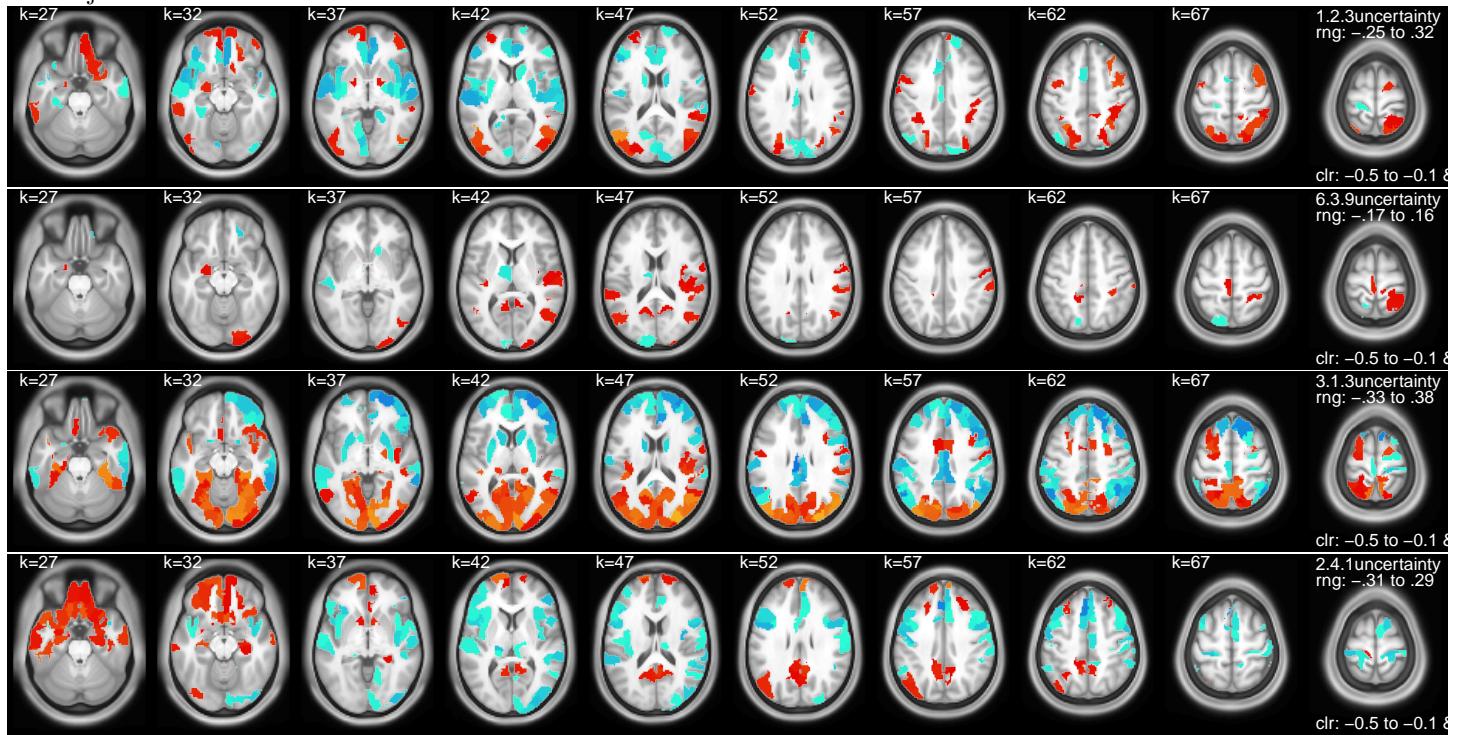
subject 47 the four runs



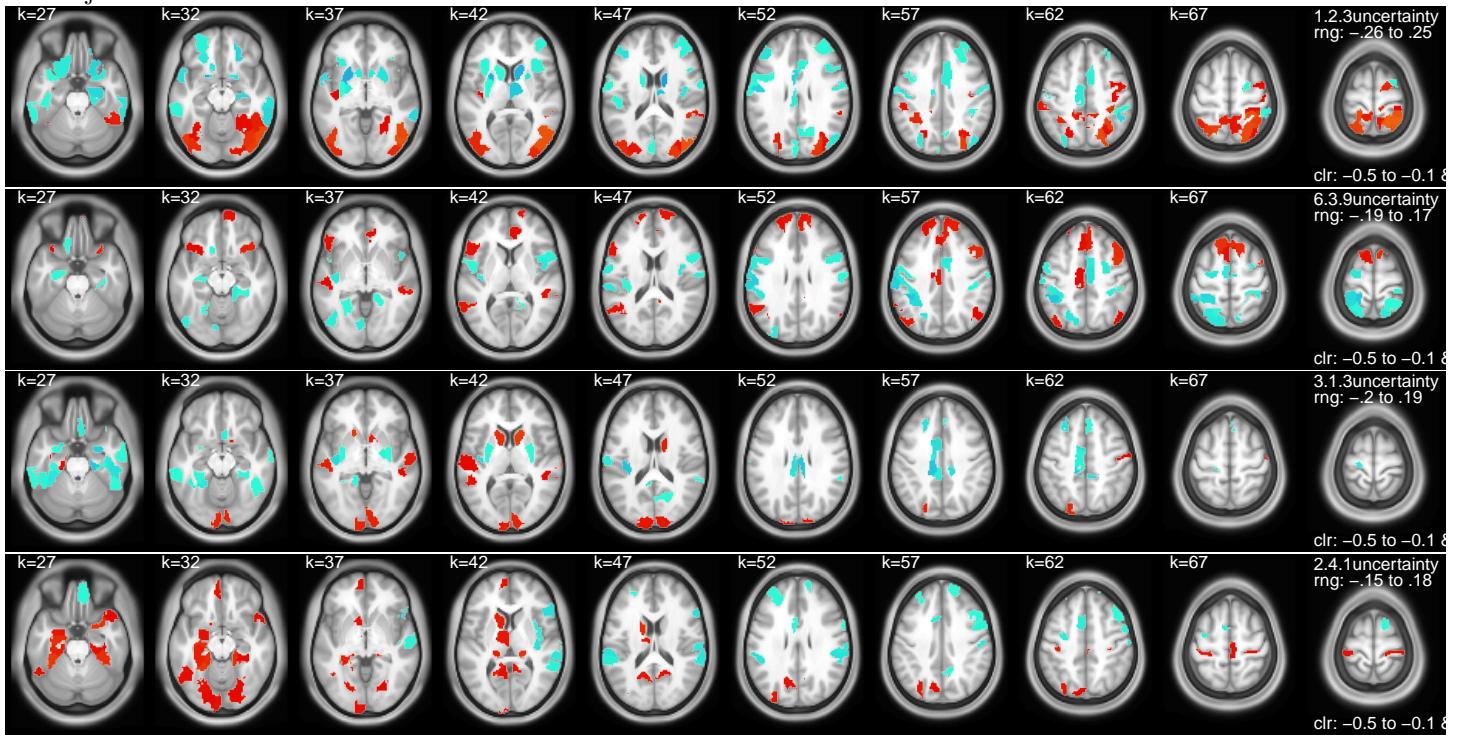
plot uncertainty correlations with parcel timeseries
subject 01 the four runs



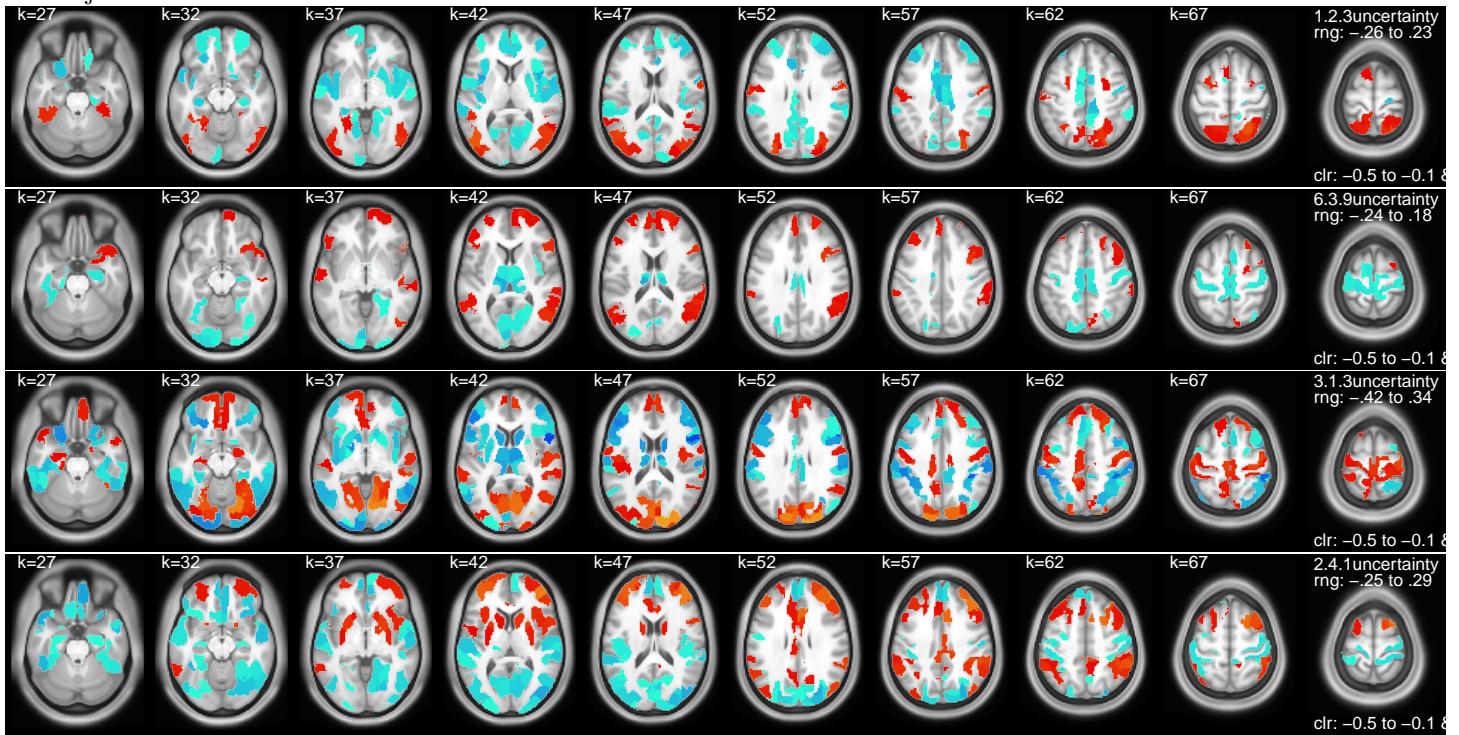
subject 02 the four runs



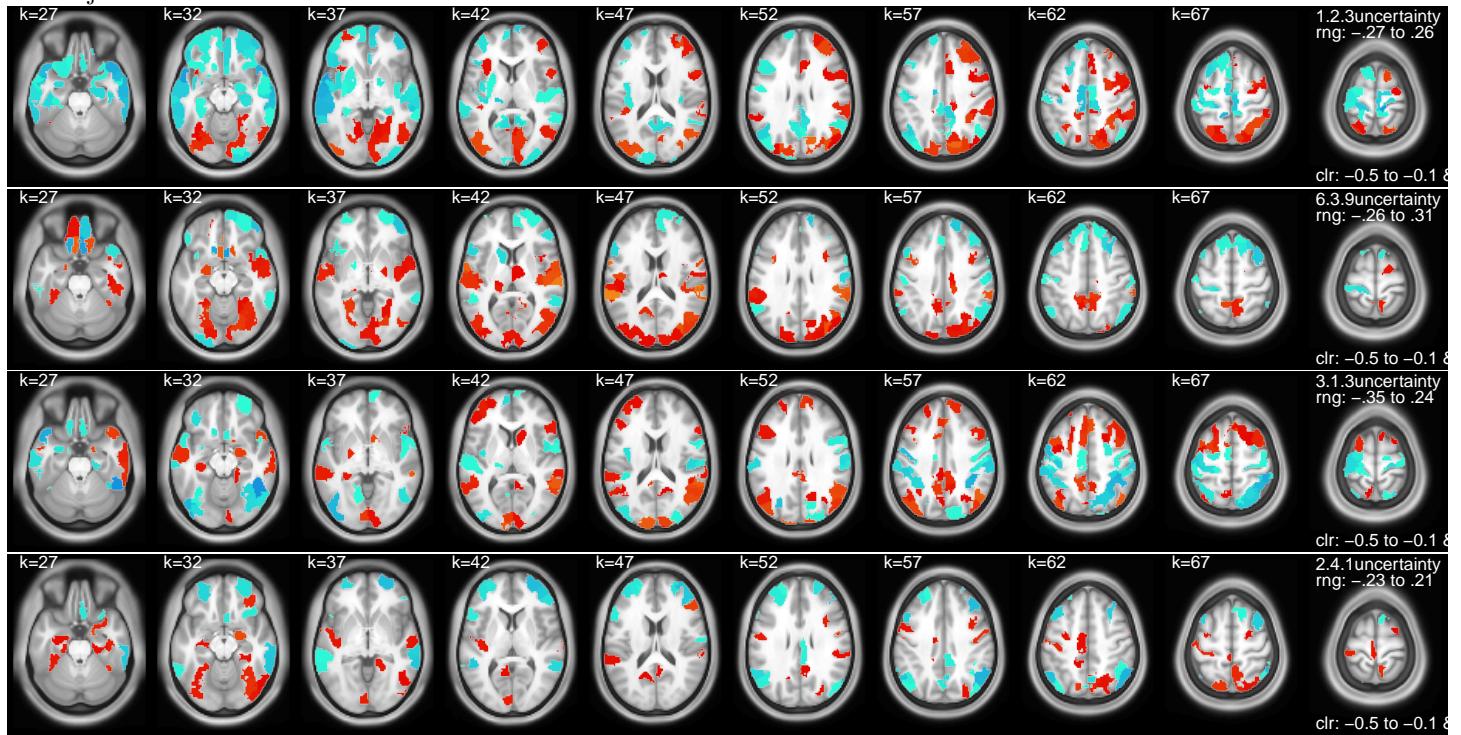
subject 03 the four runs



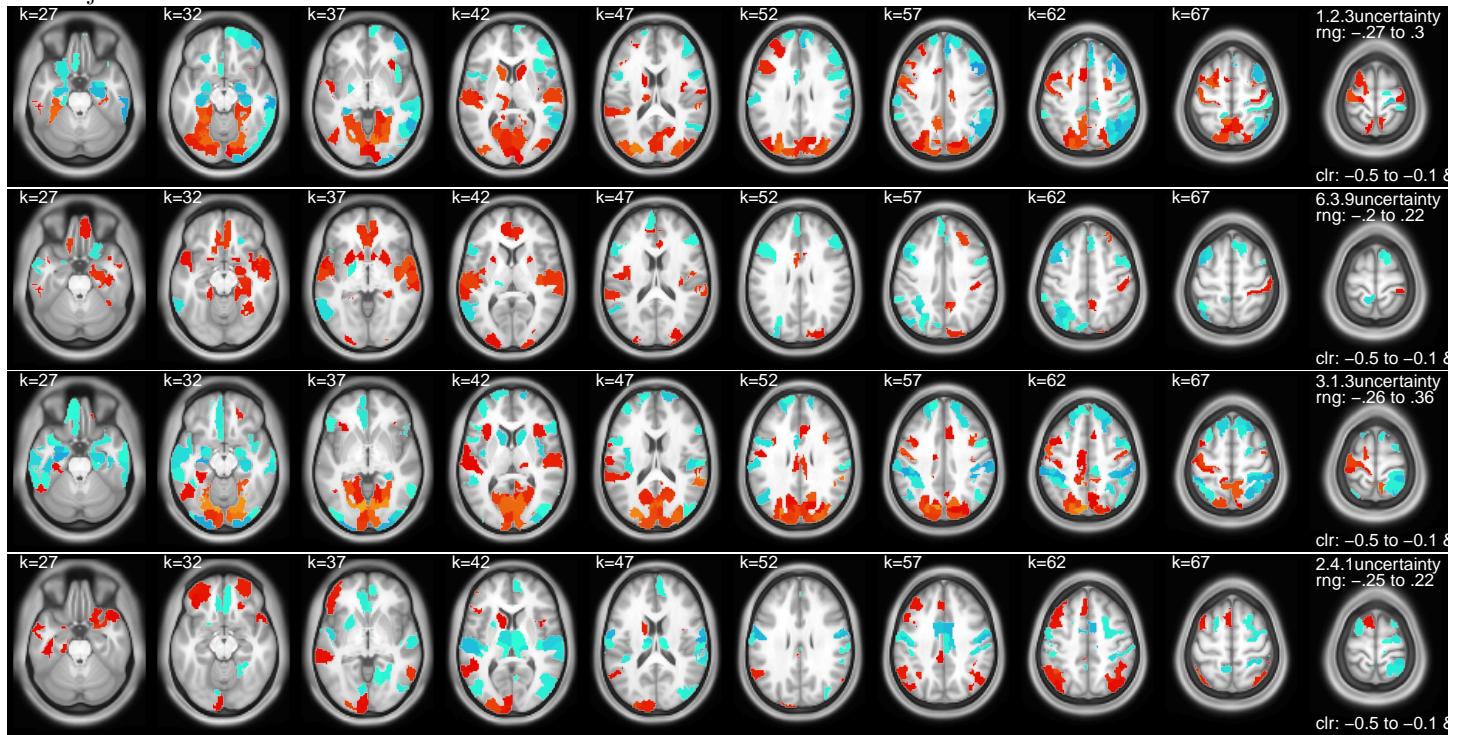
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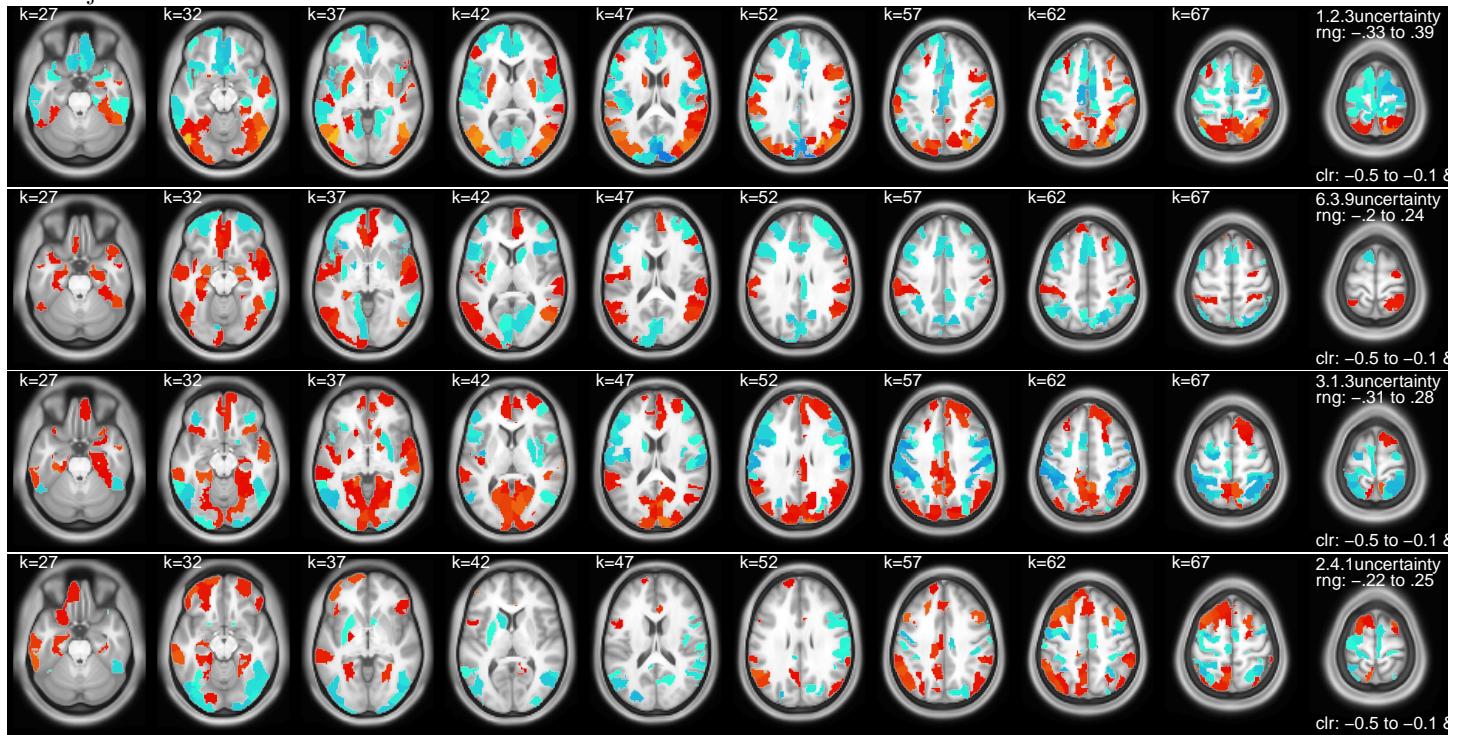
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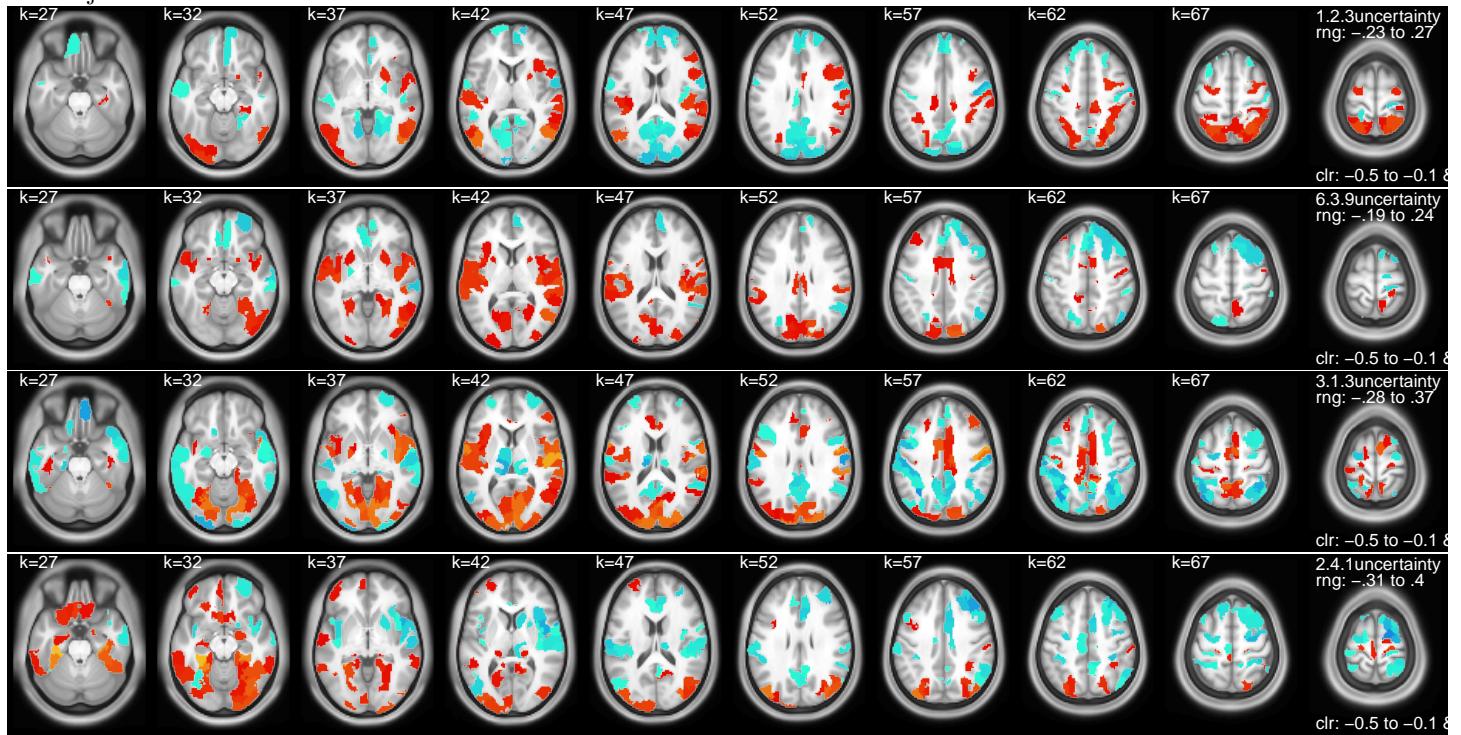
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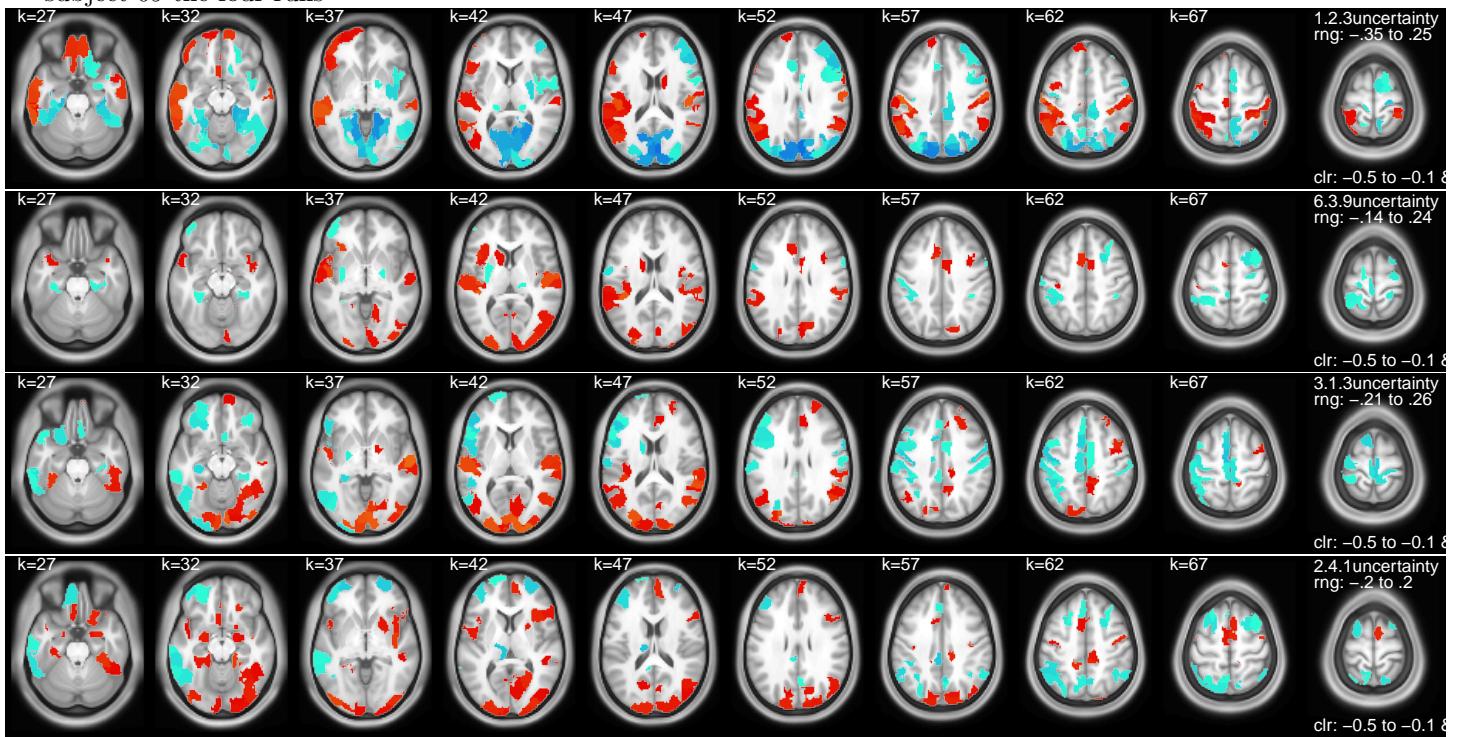
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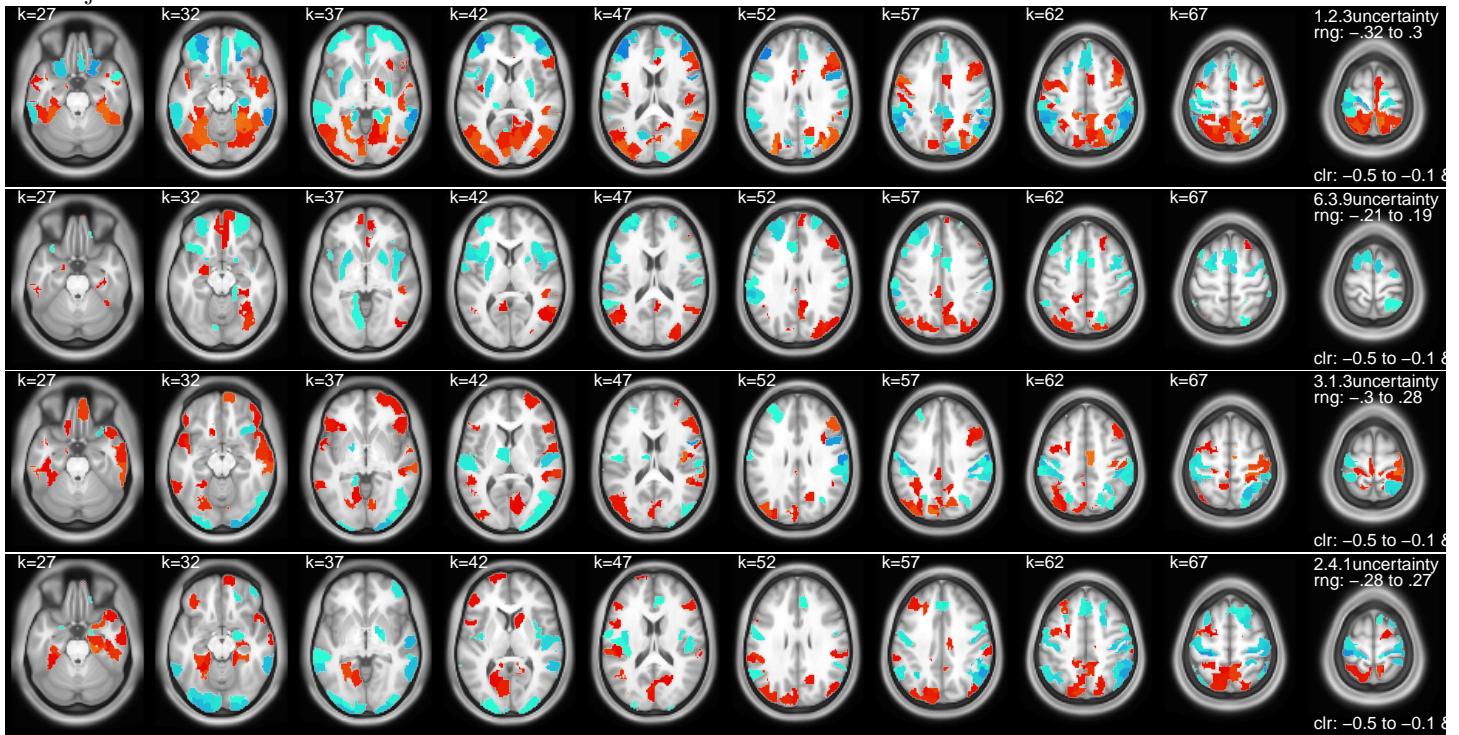
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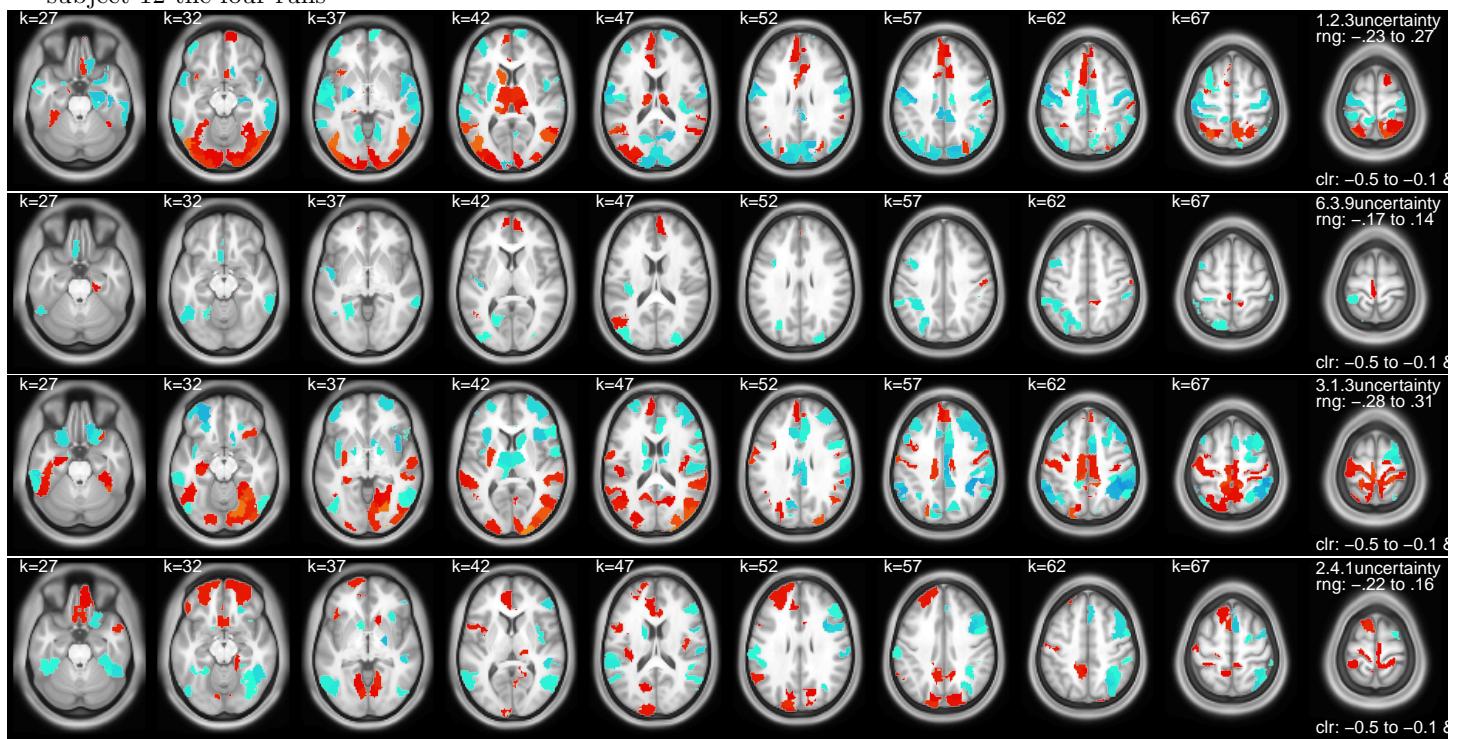
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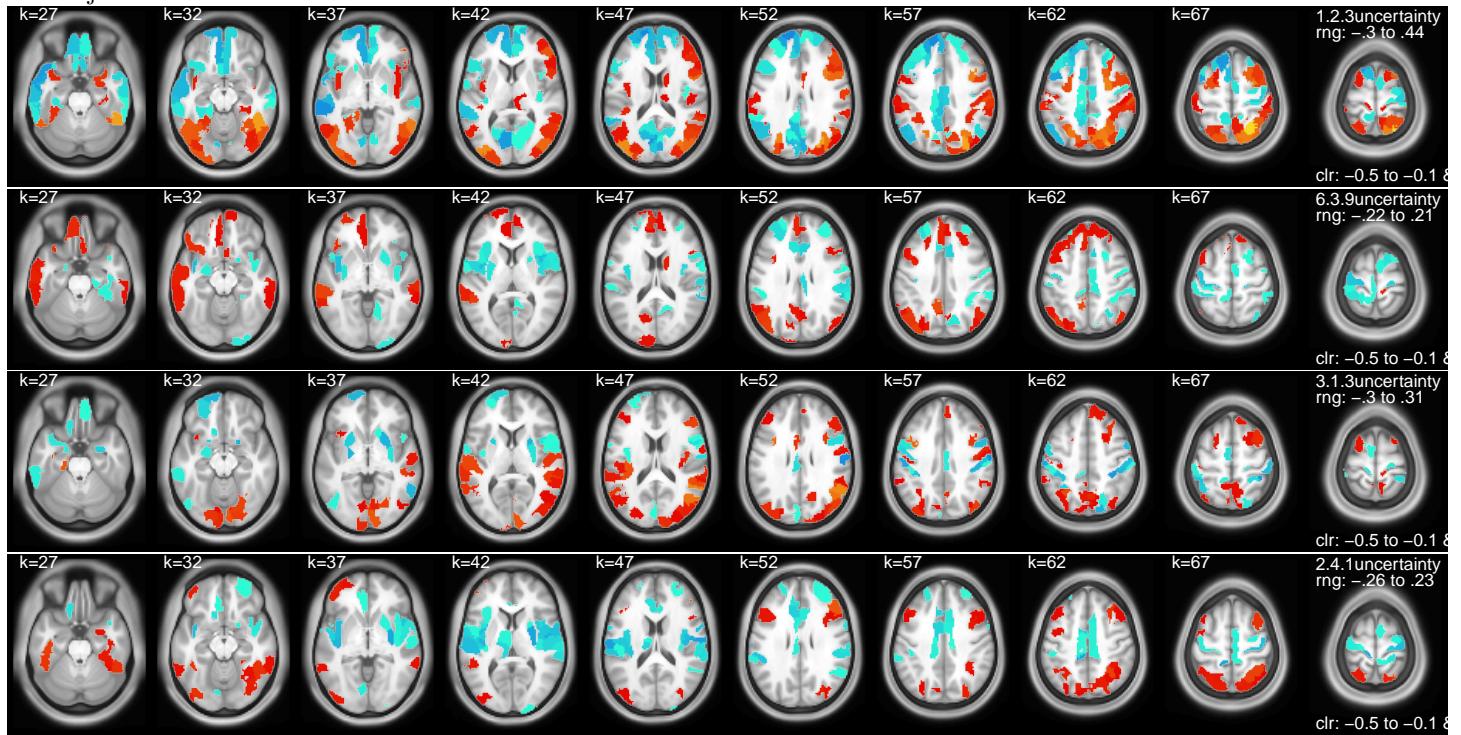
subject 11 the four runs



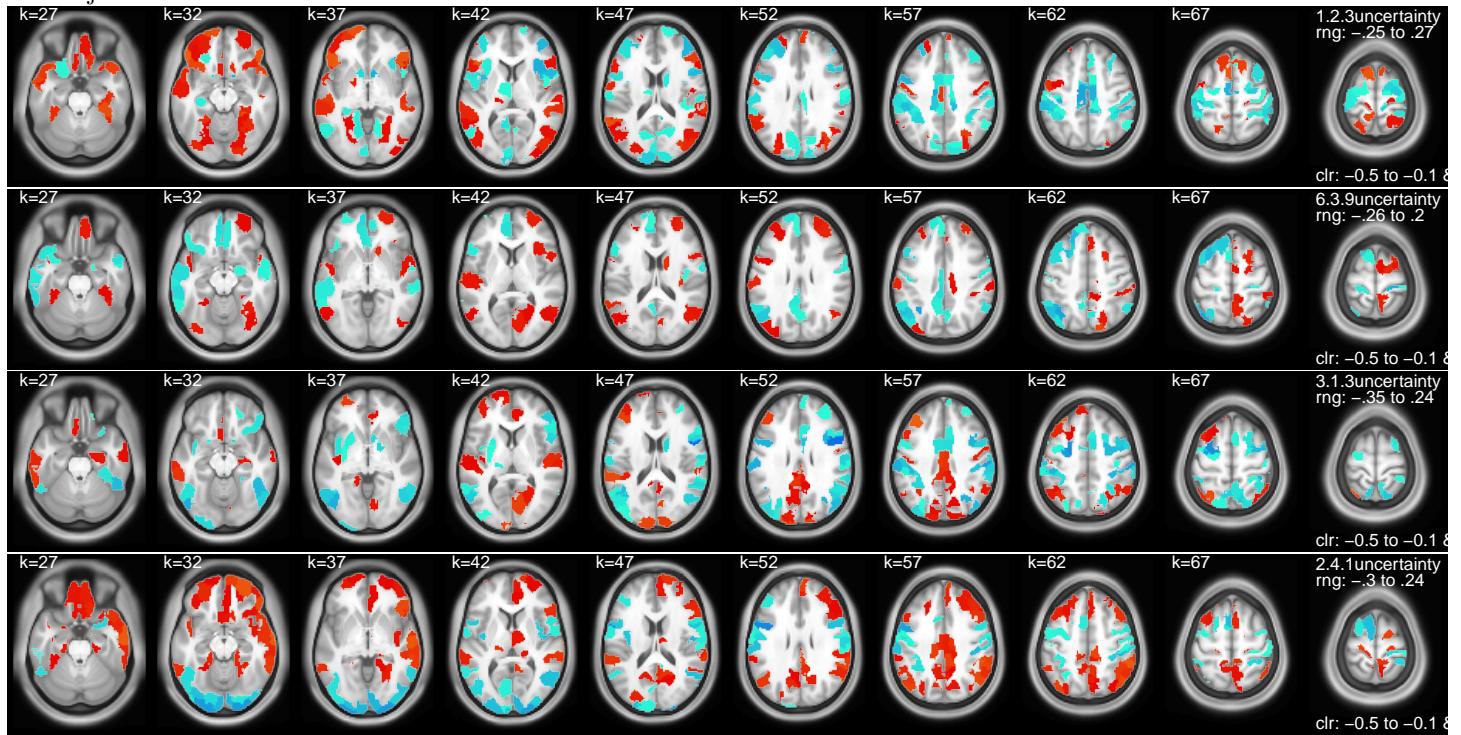
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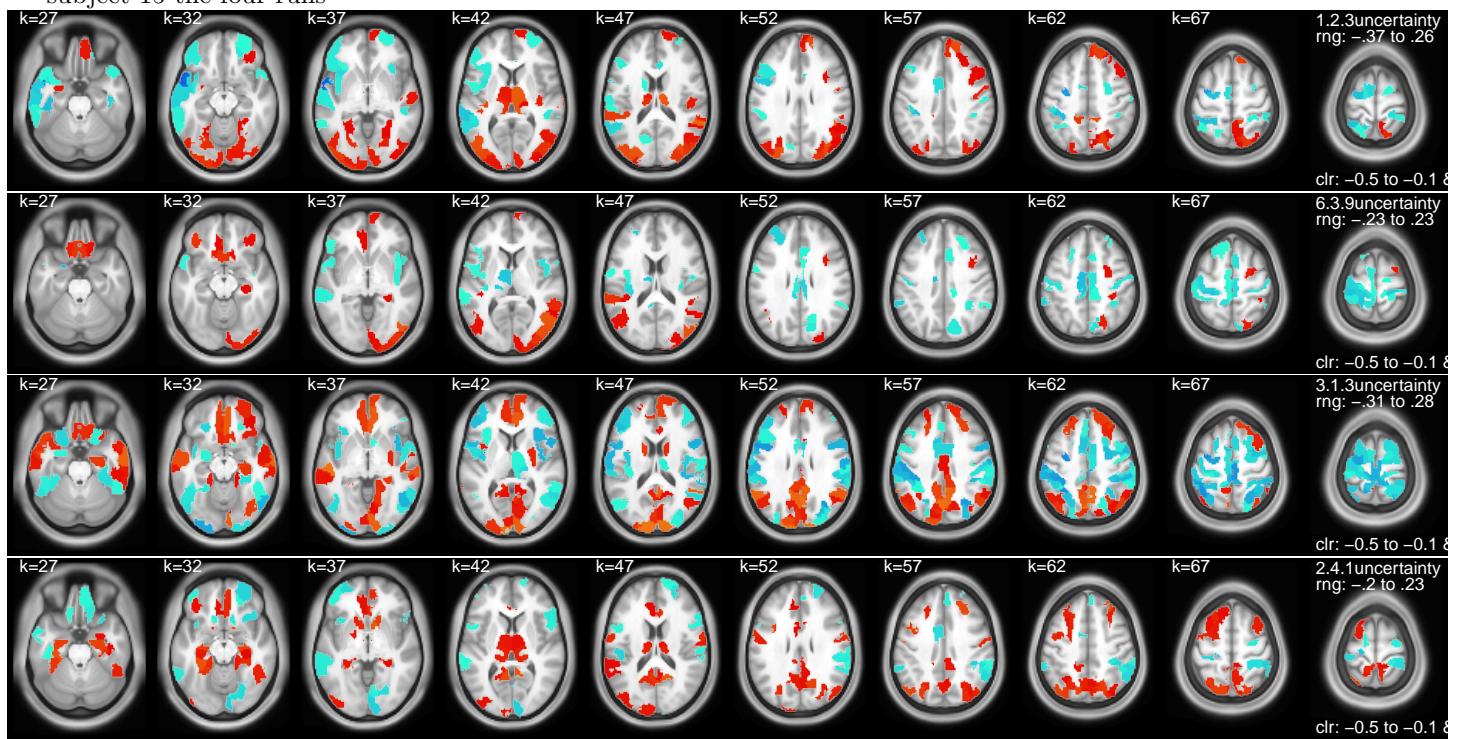
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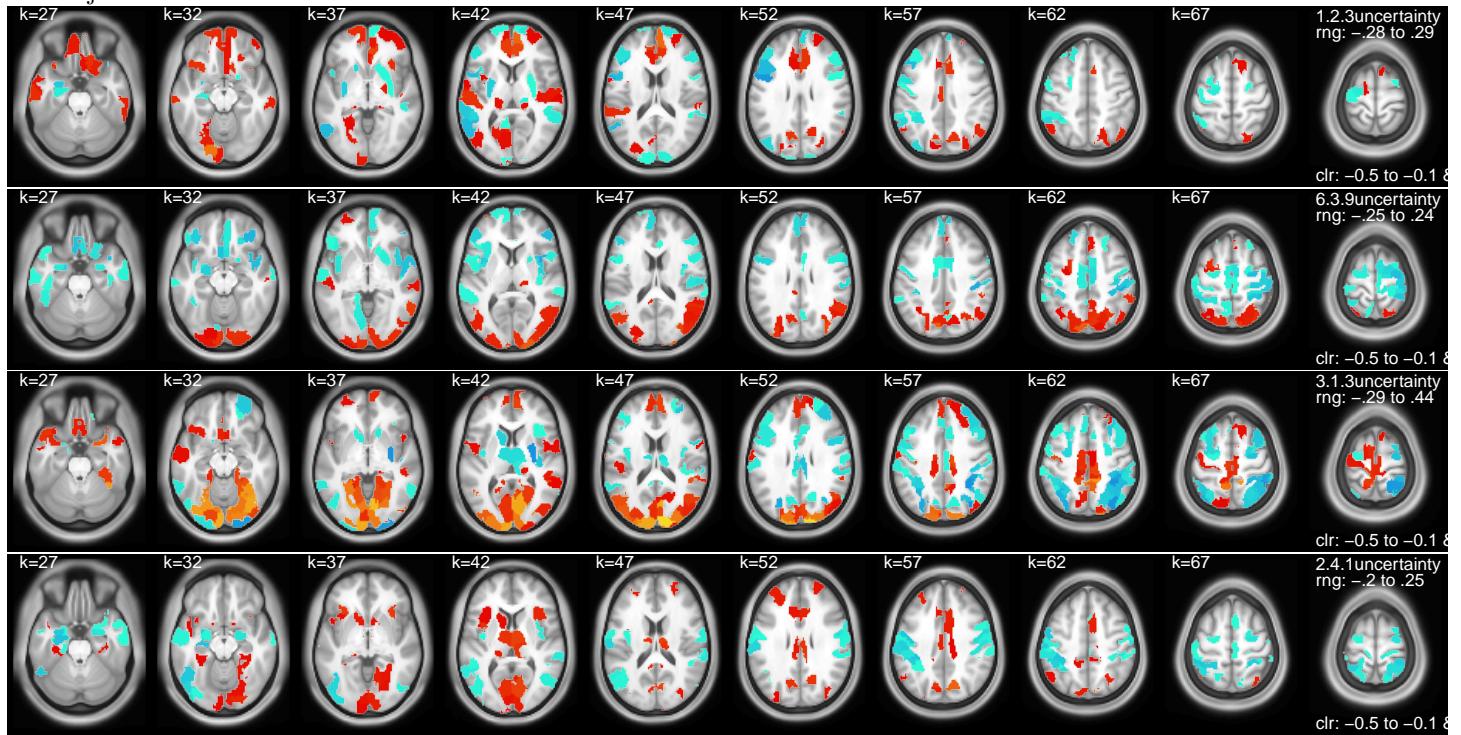
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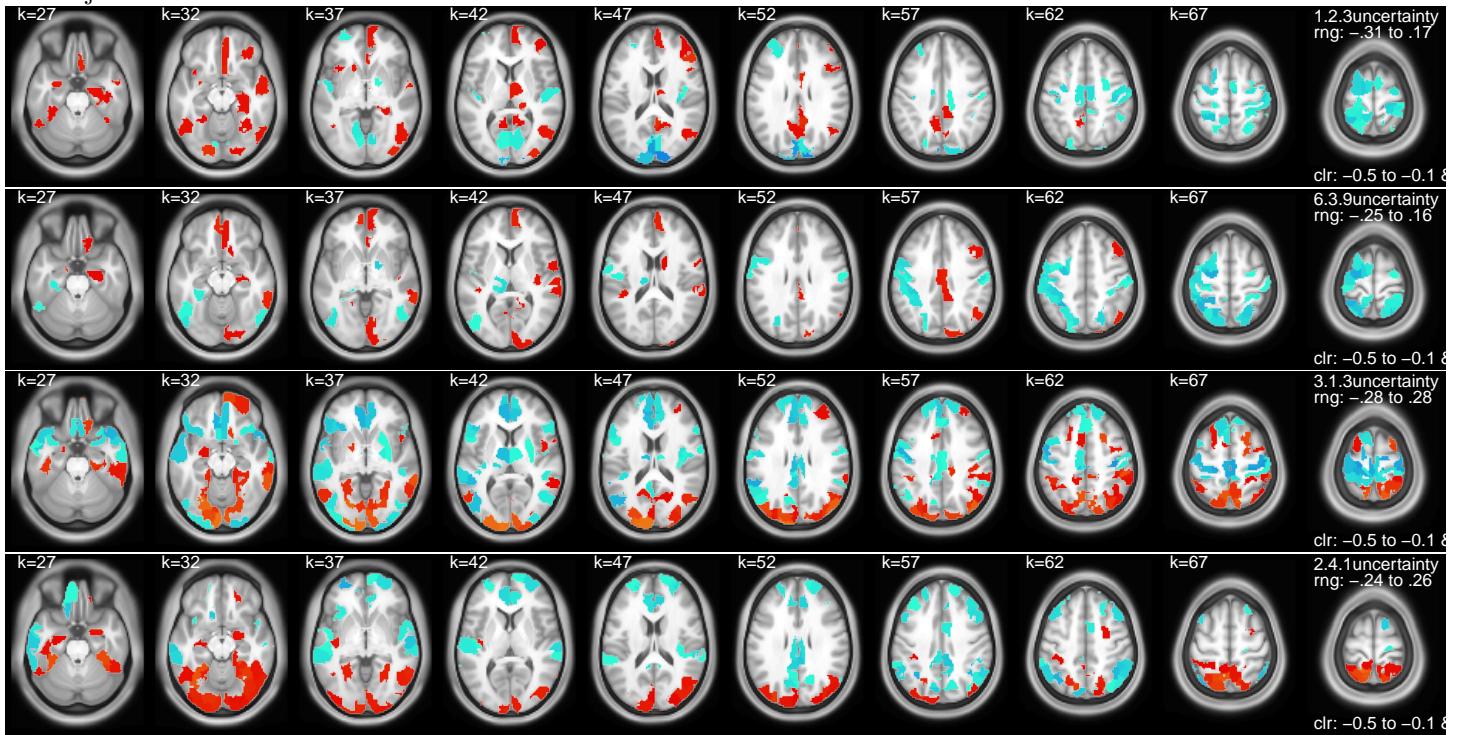
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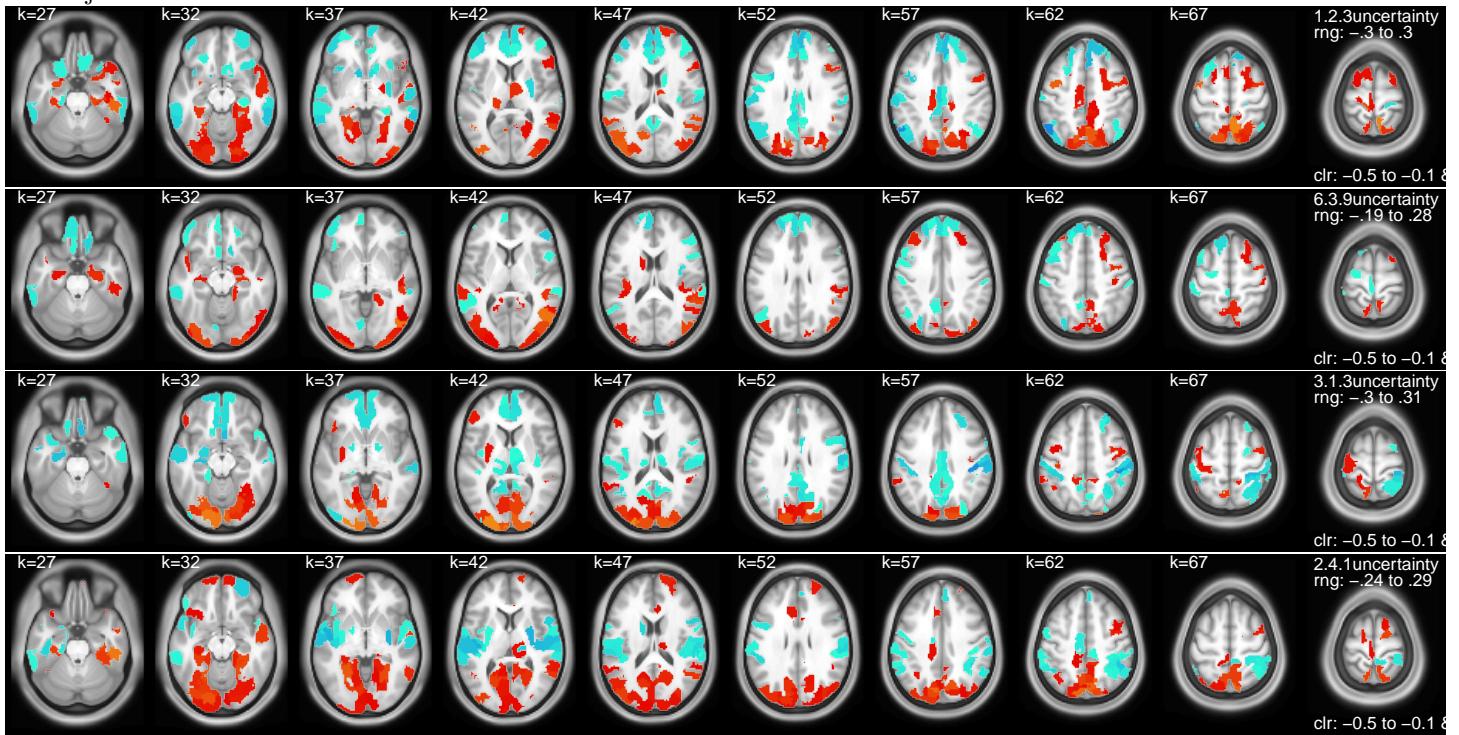
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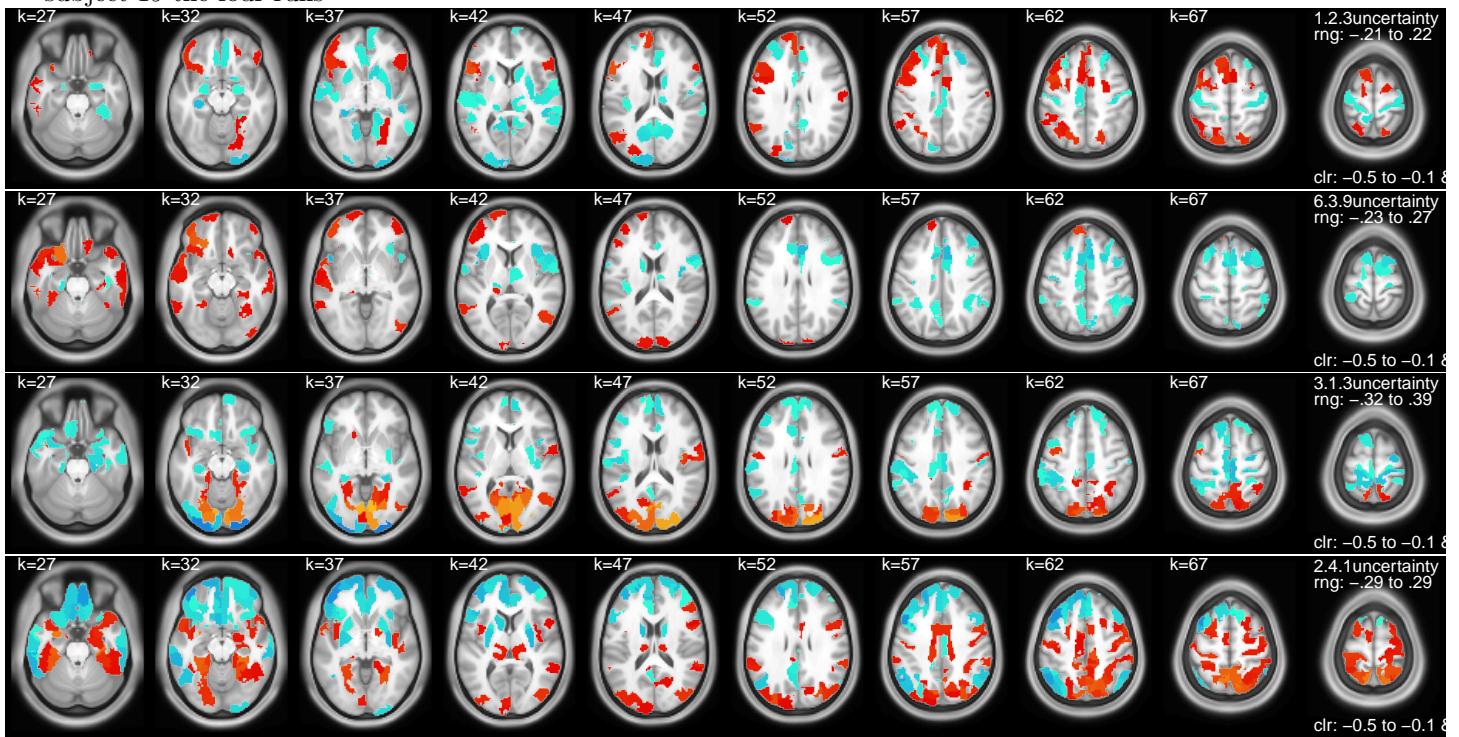
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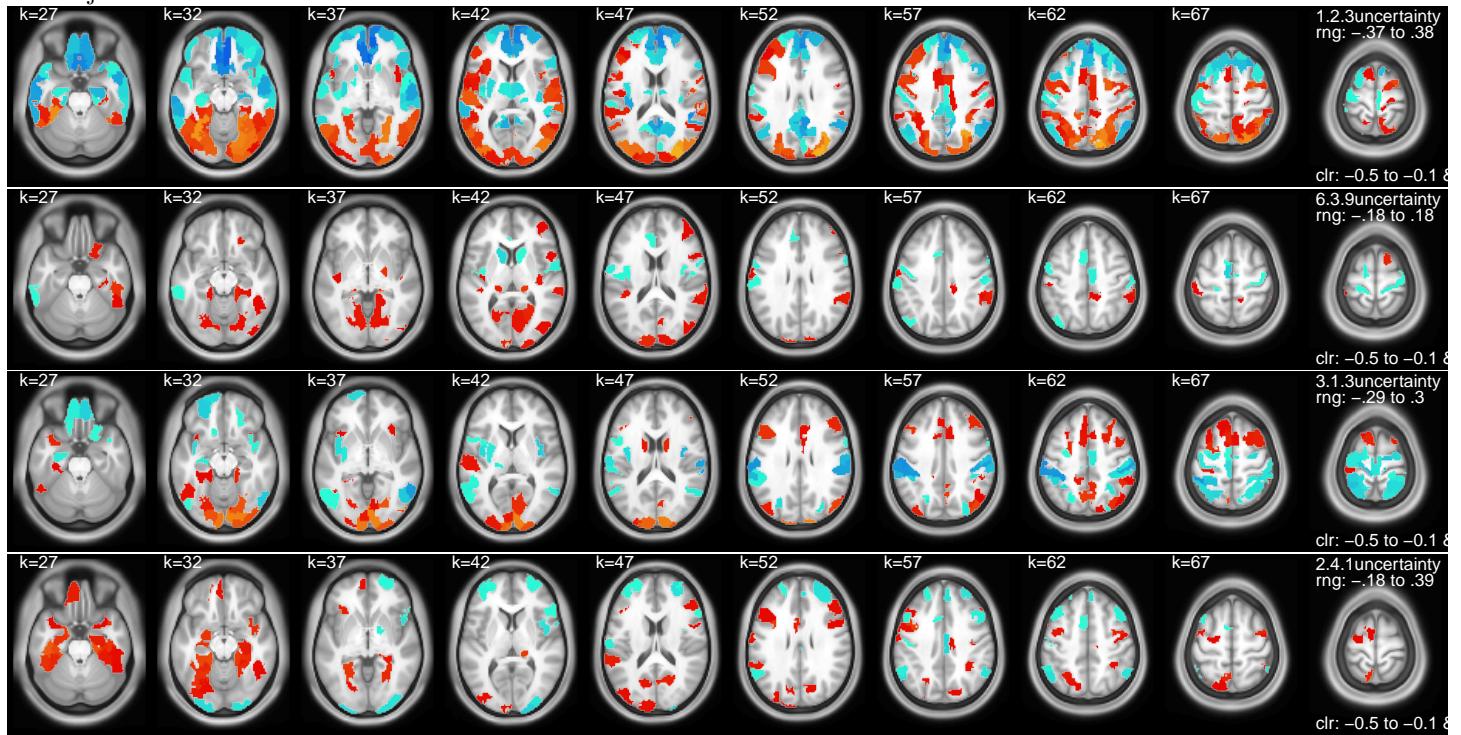
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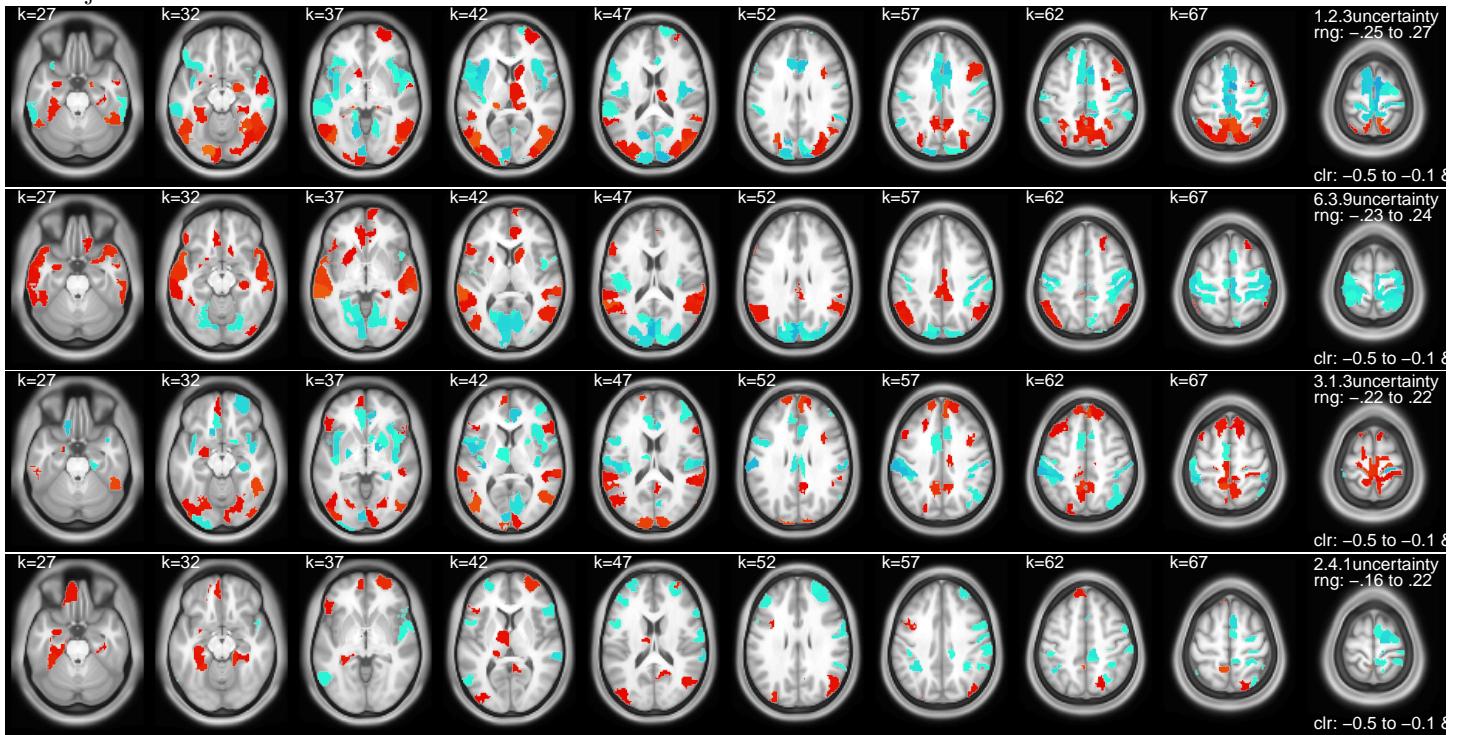
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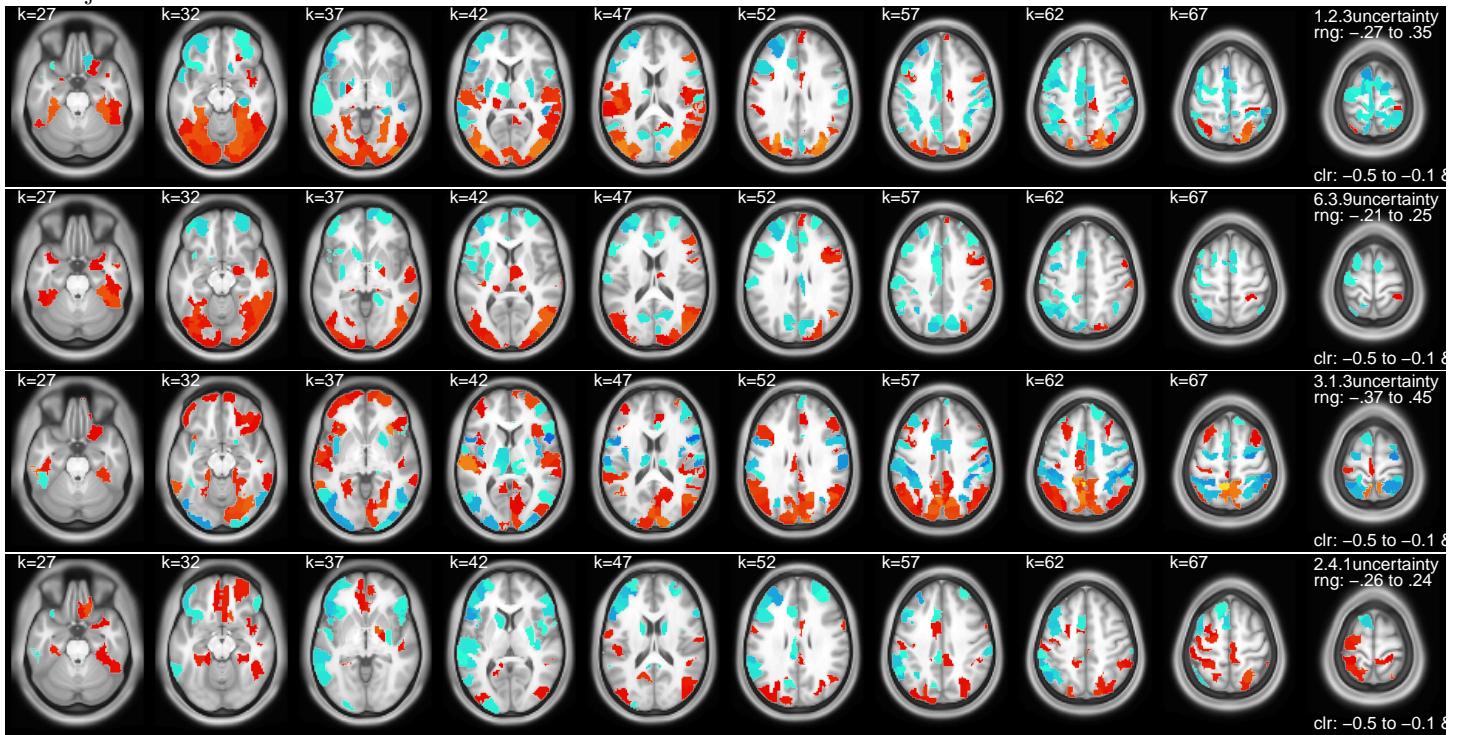
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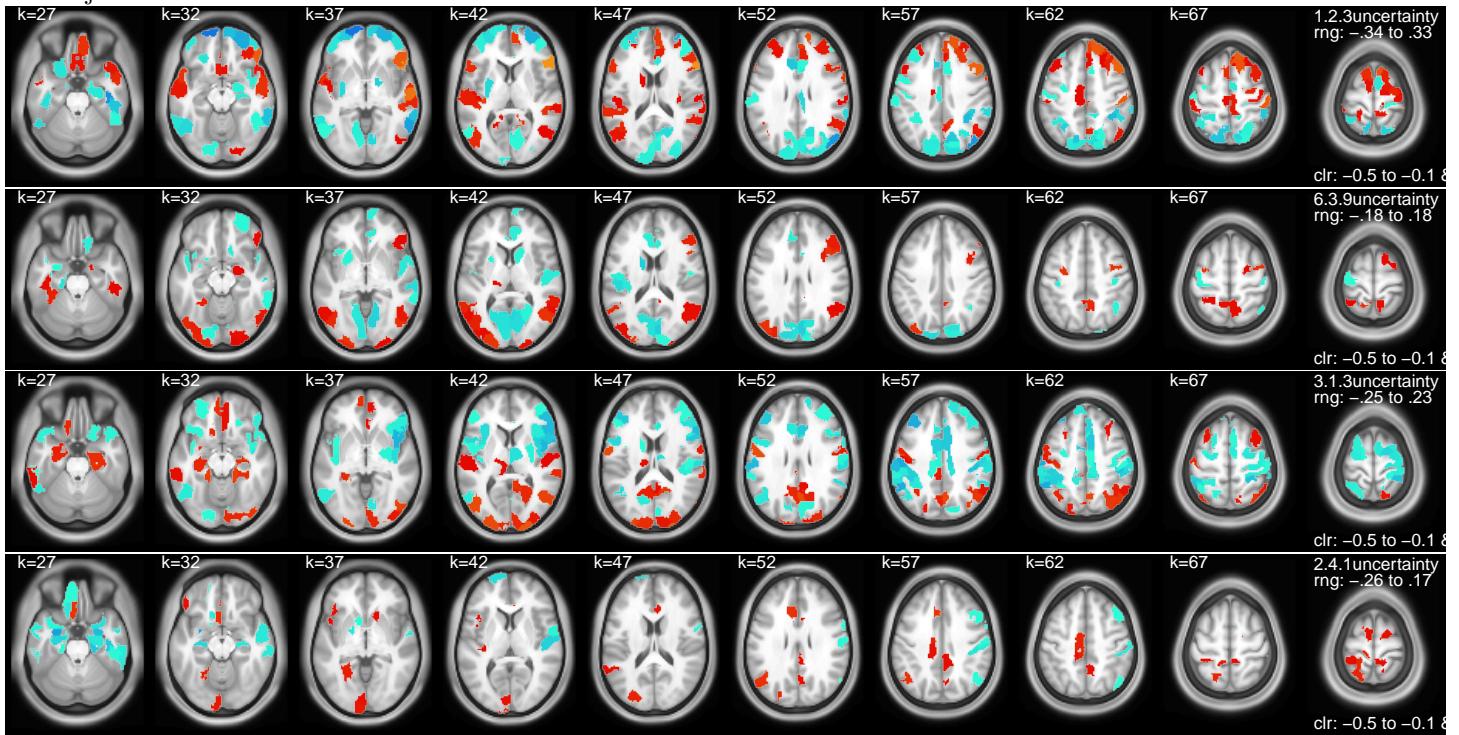
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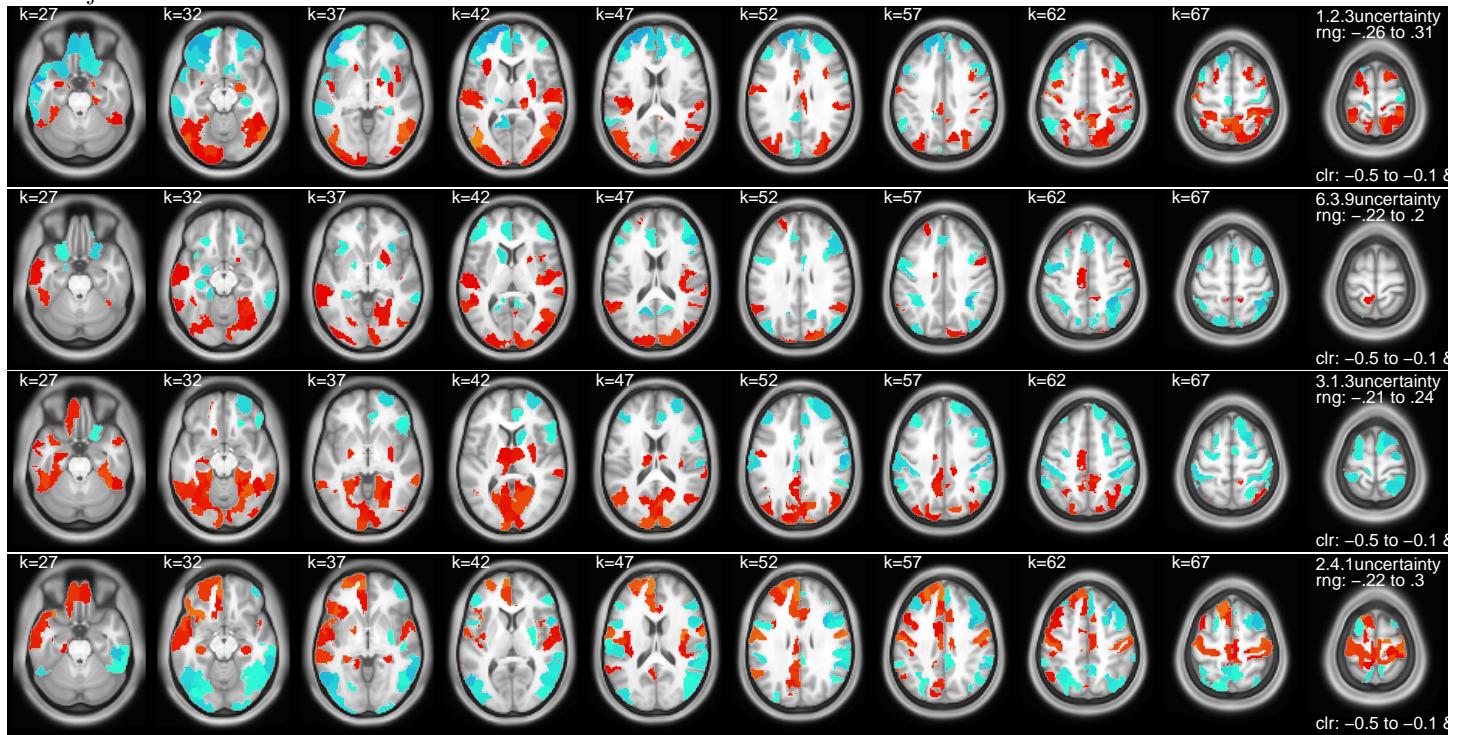
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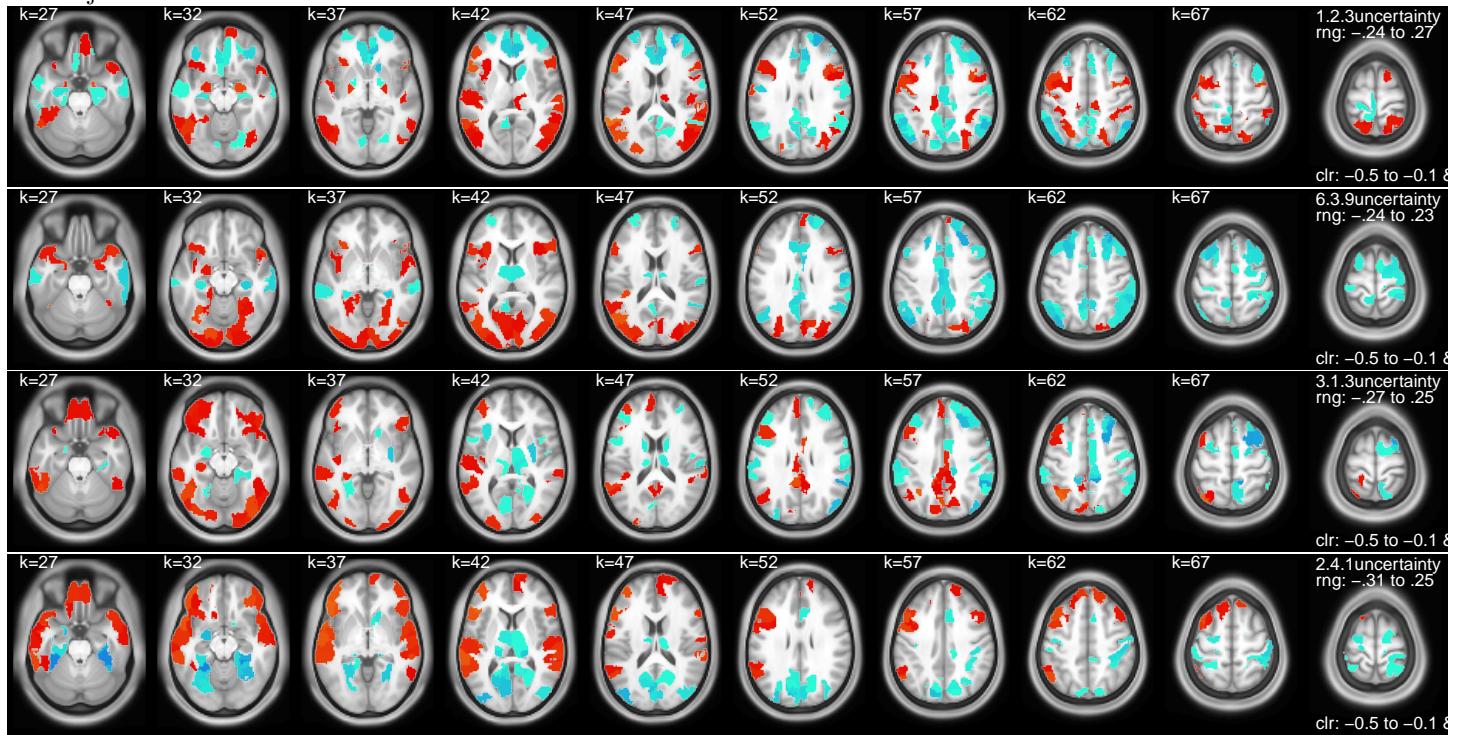
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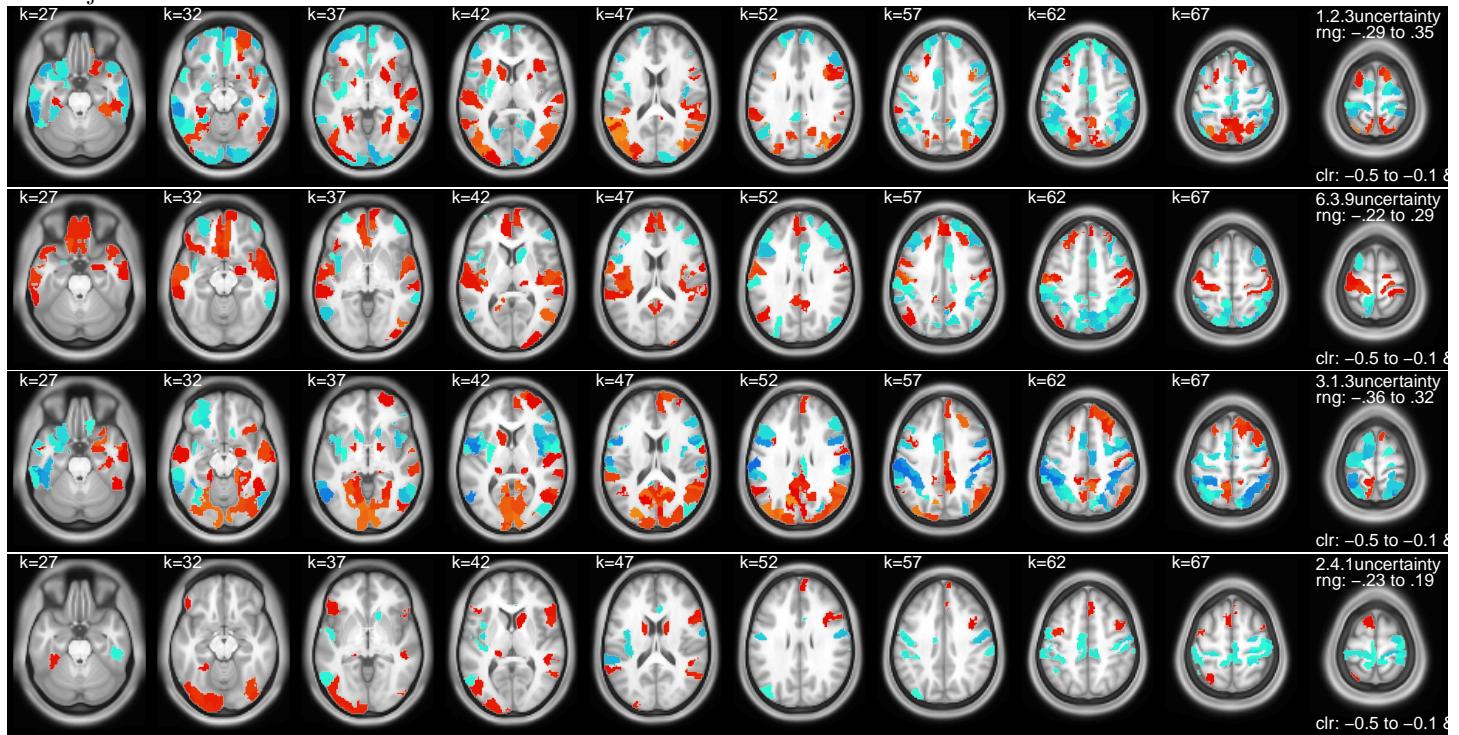
subject 24 the four runs



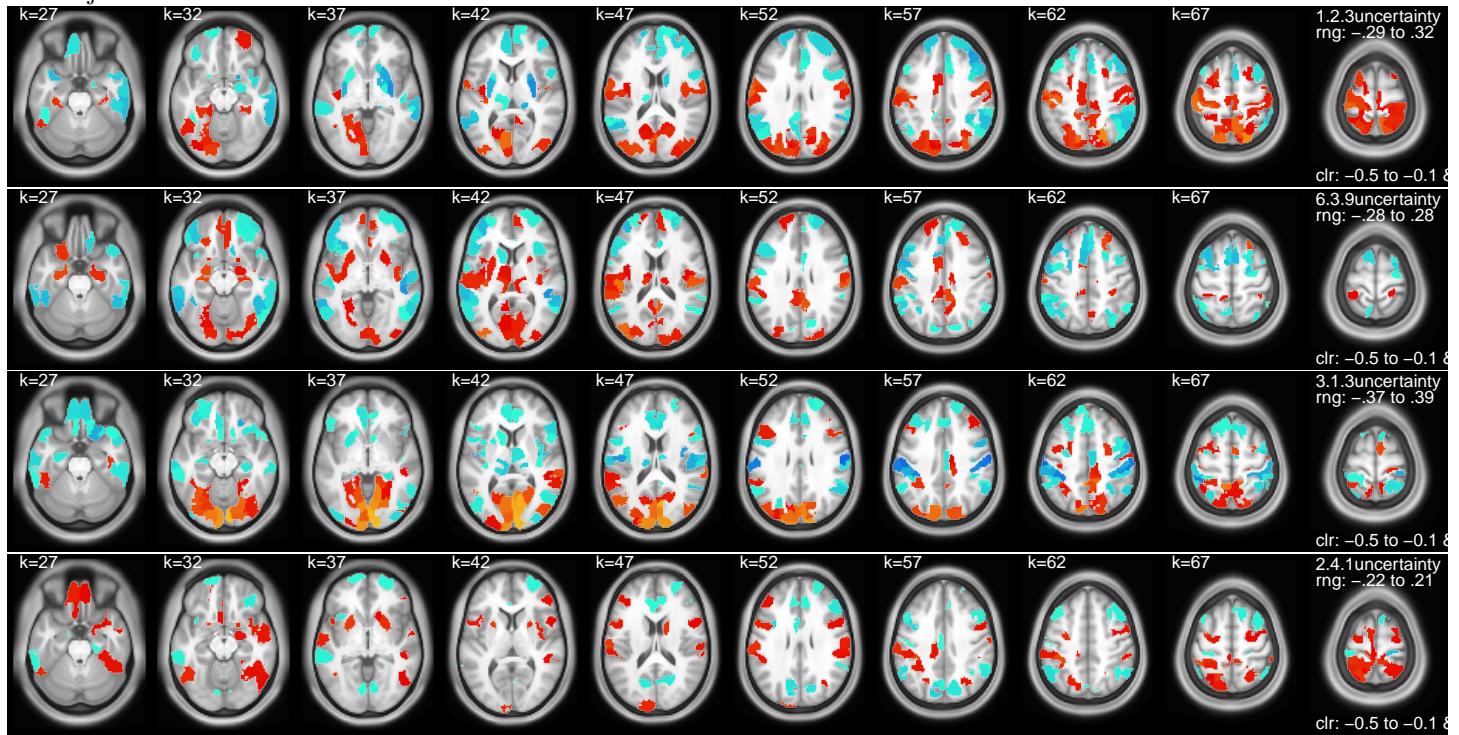
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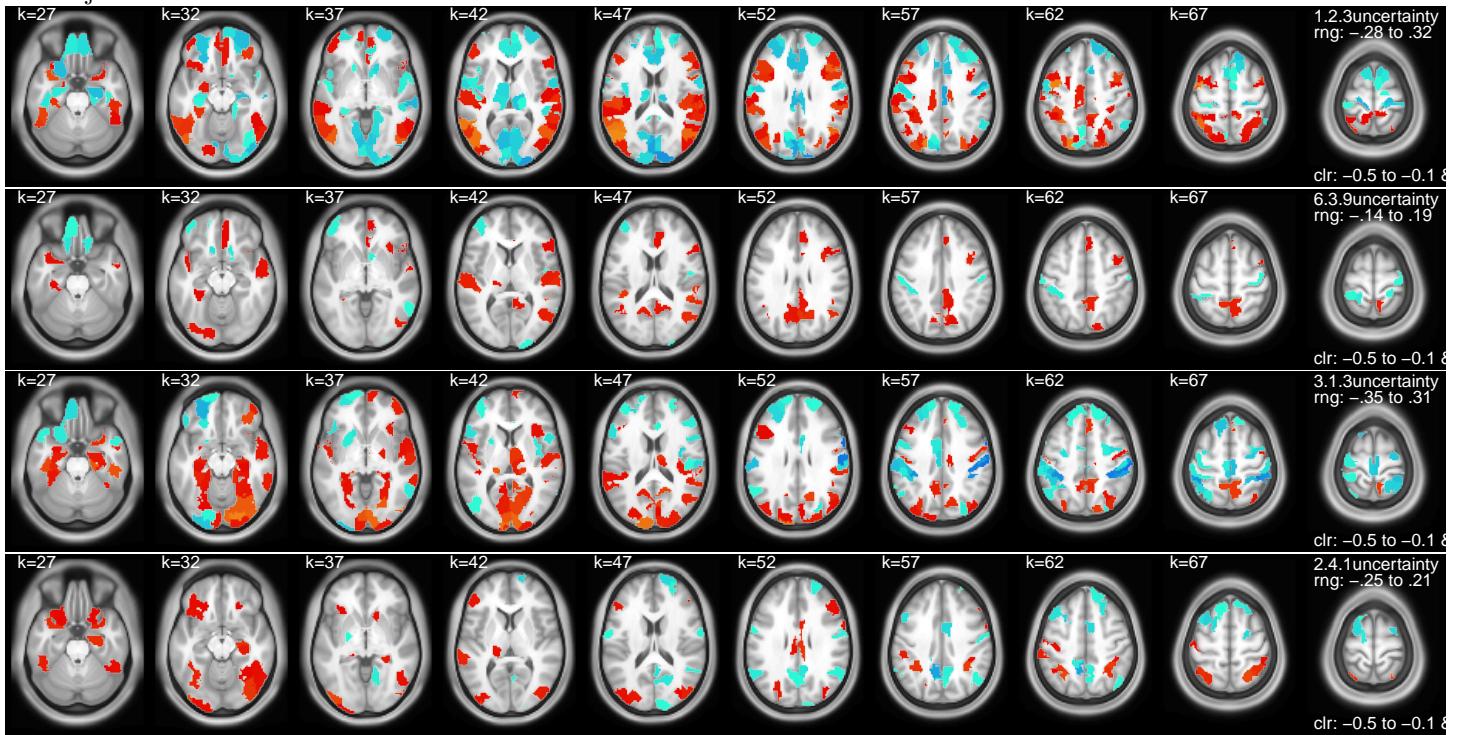
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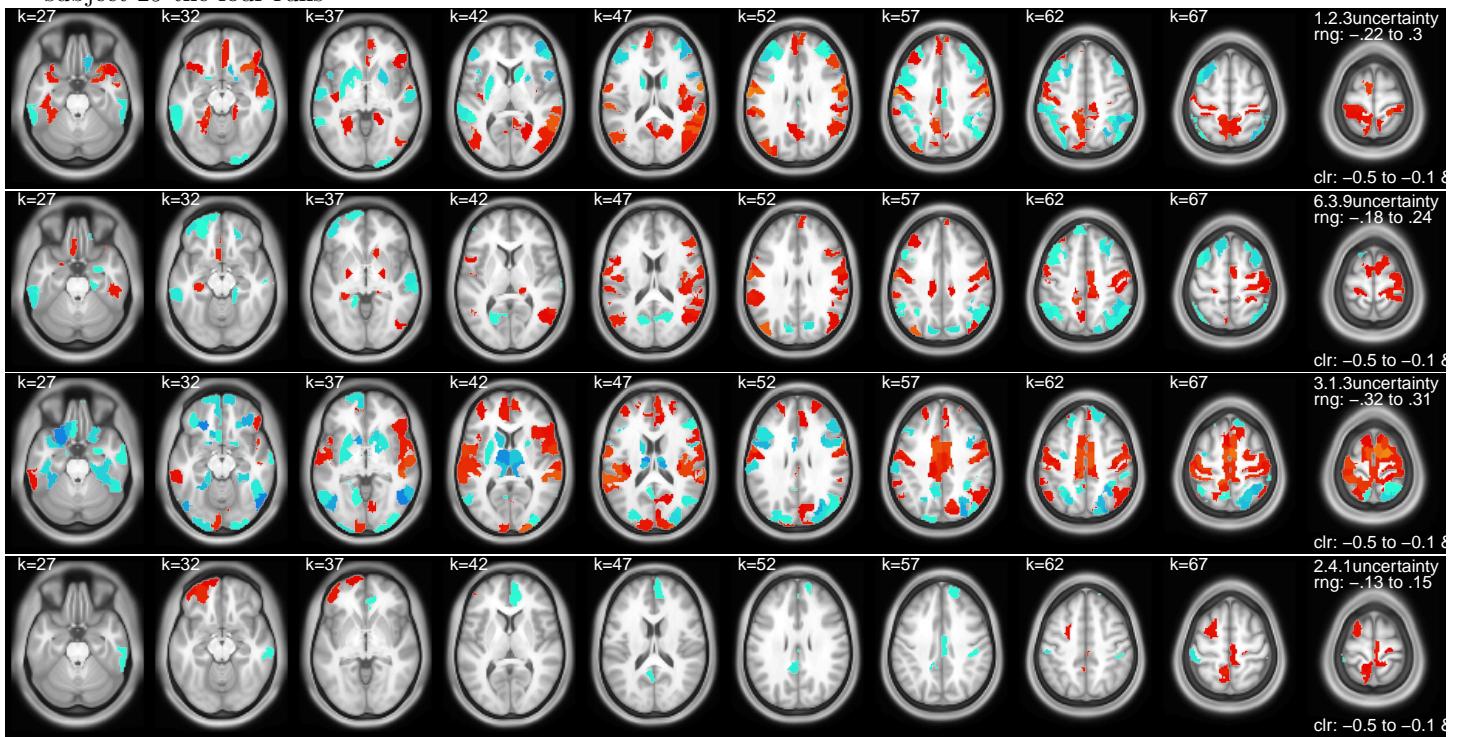
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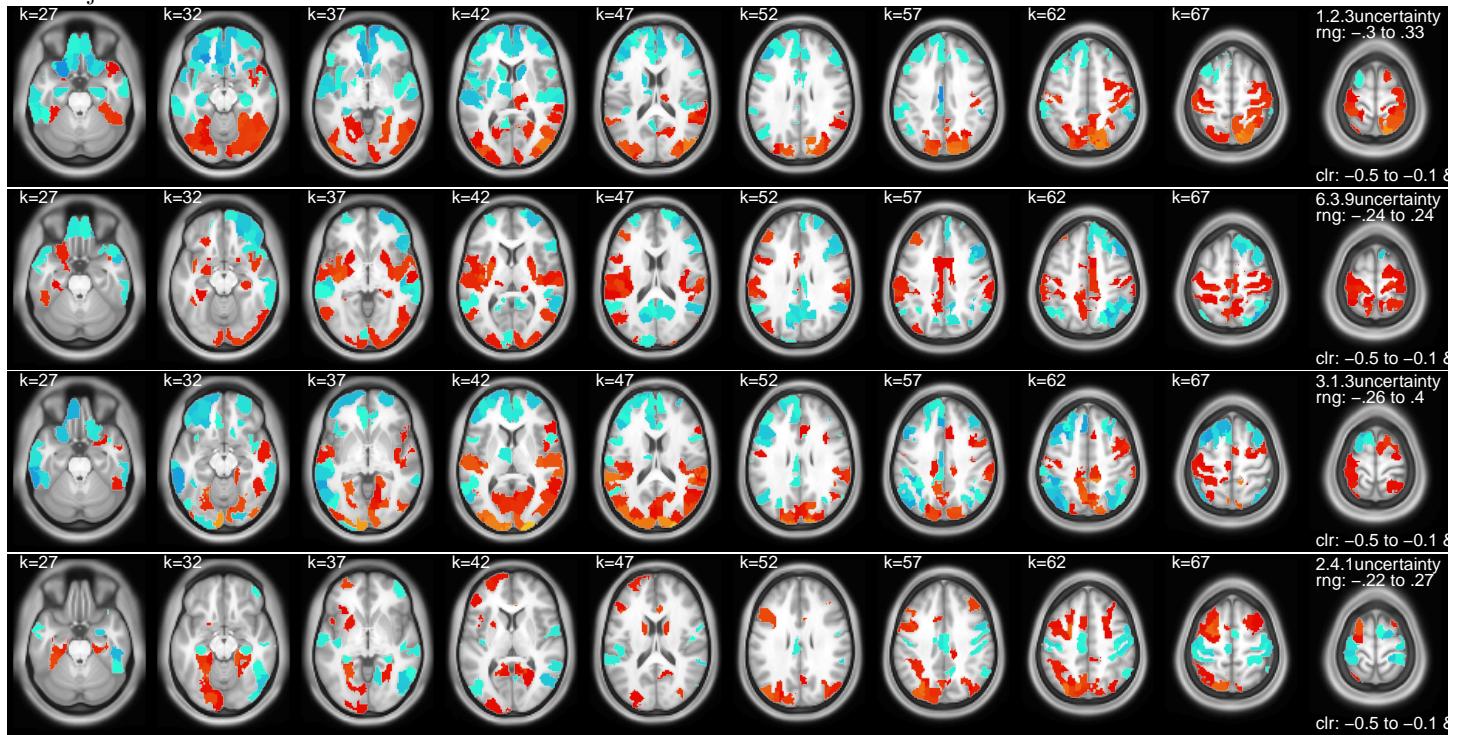
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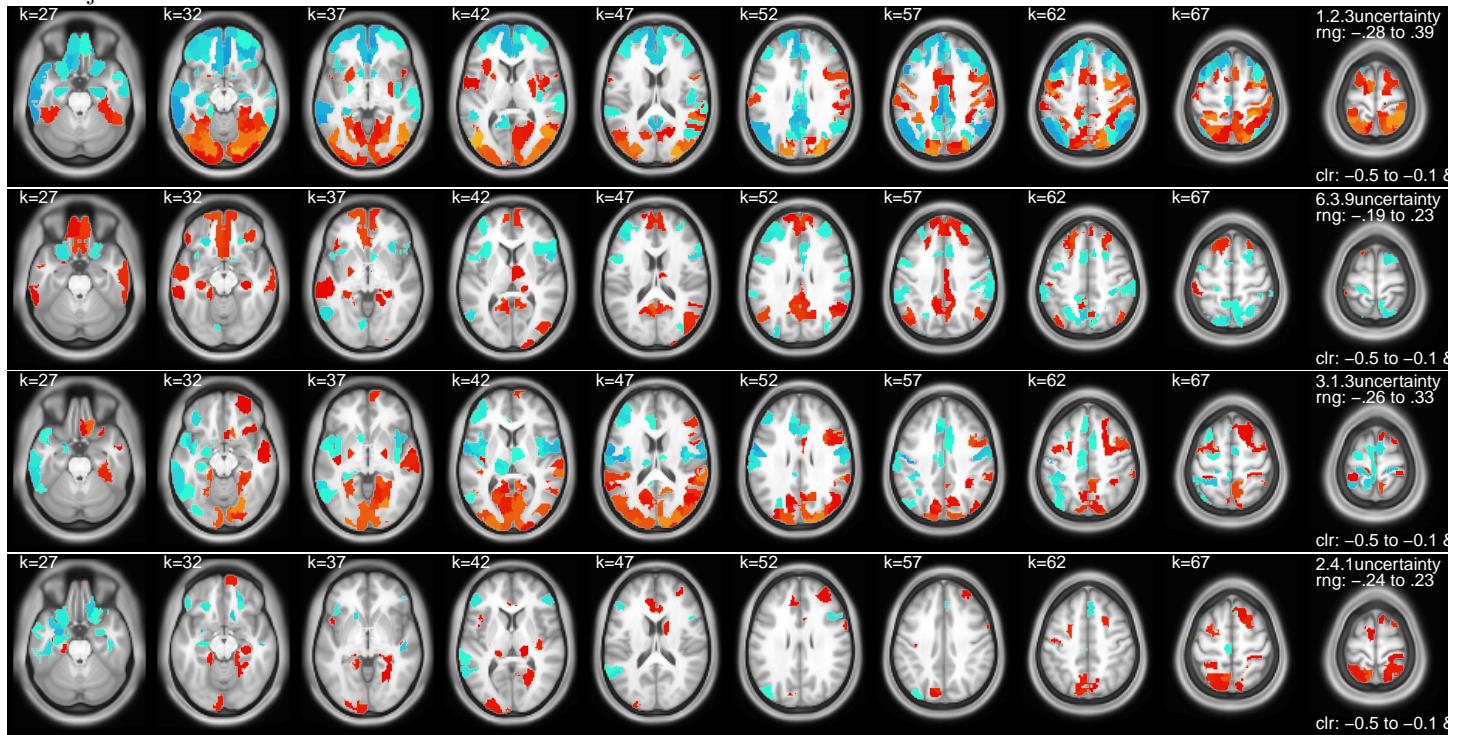
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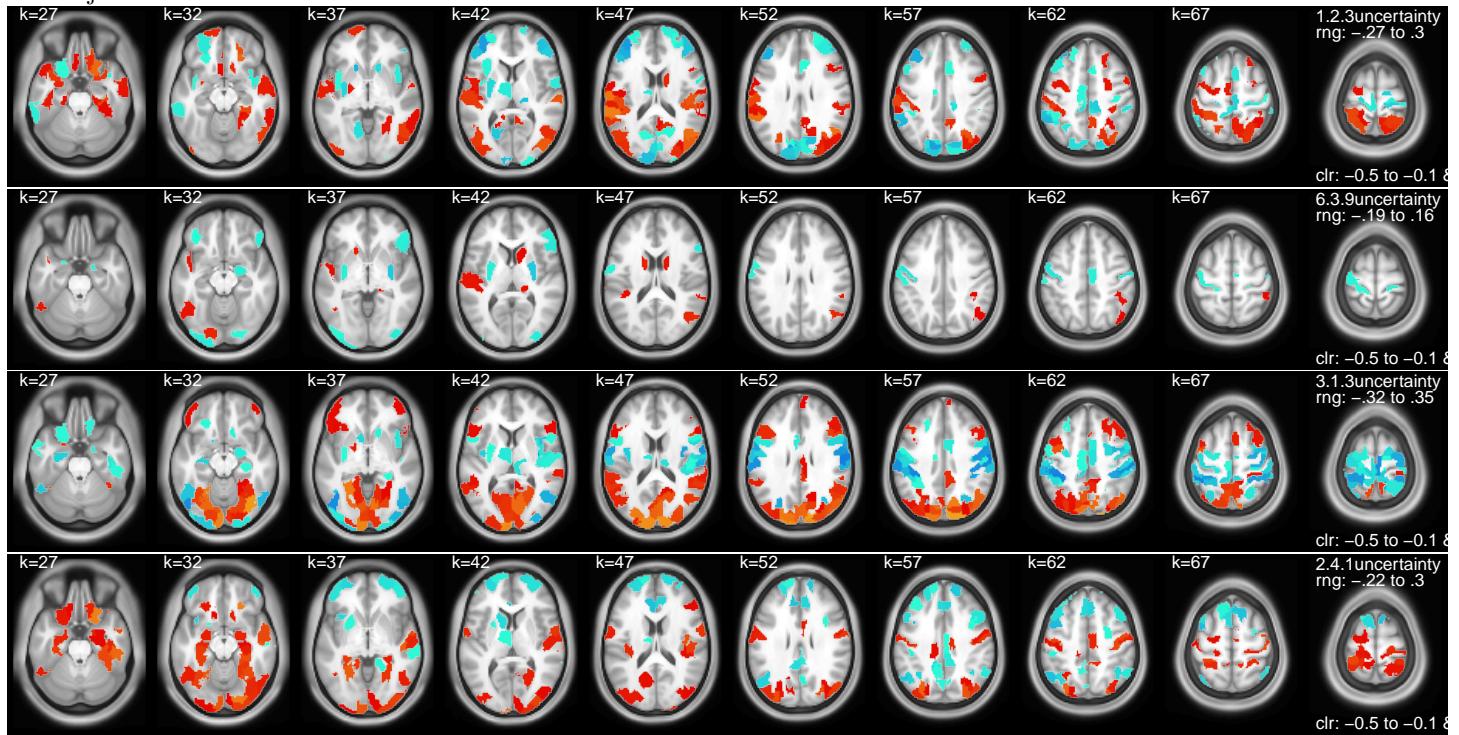
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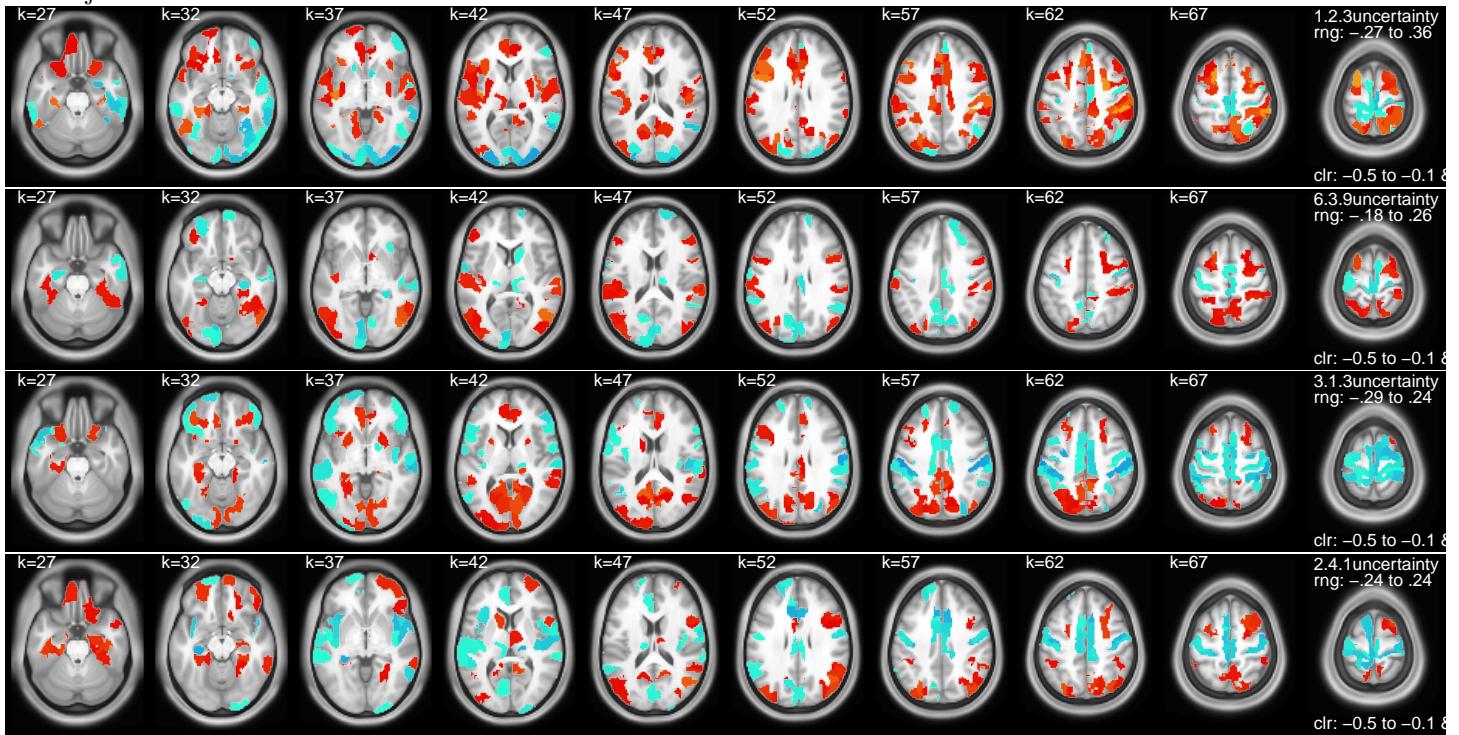
subject 31 the four runs



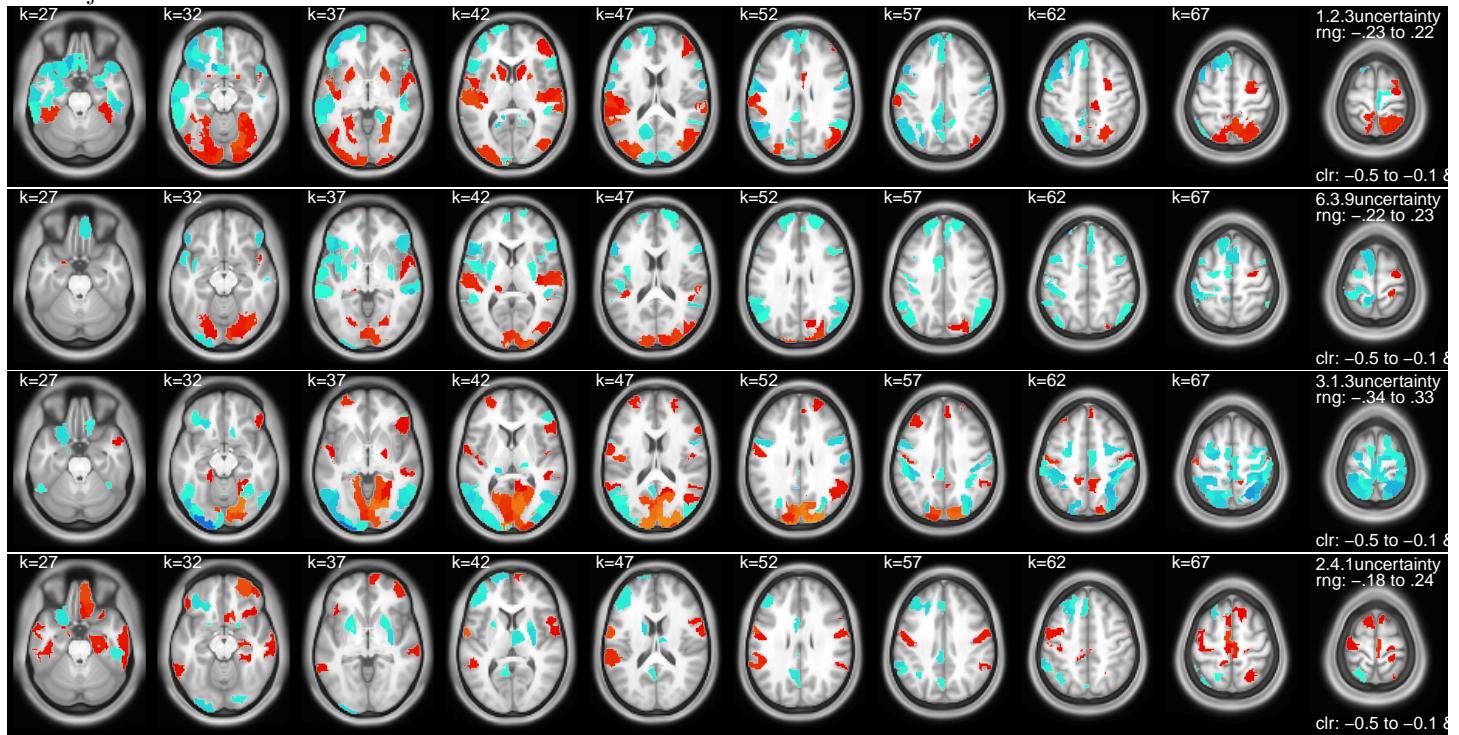
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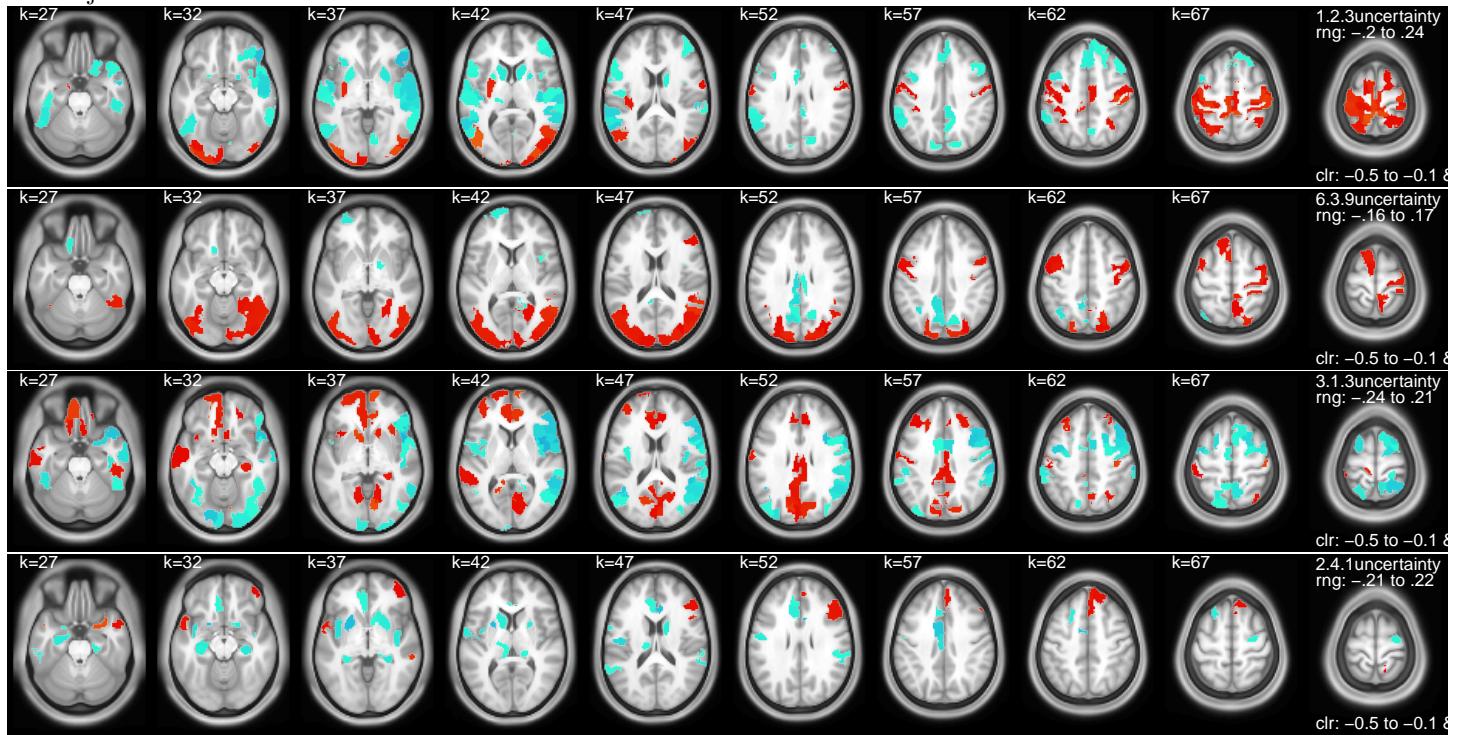
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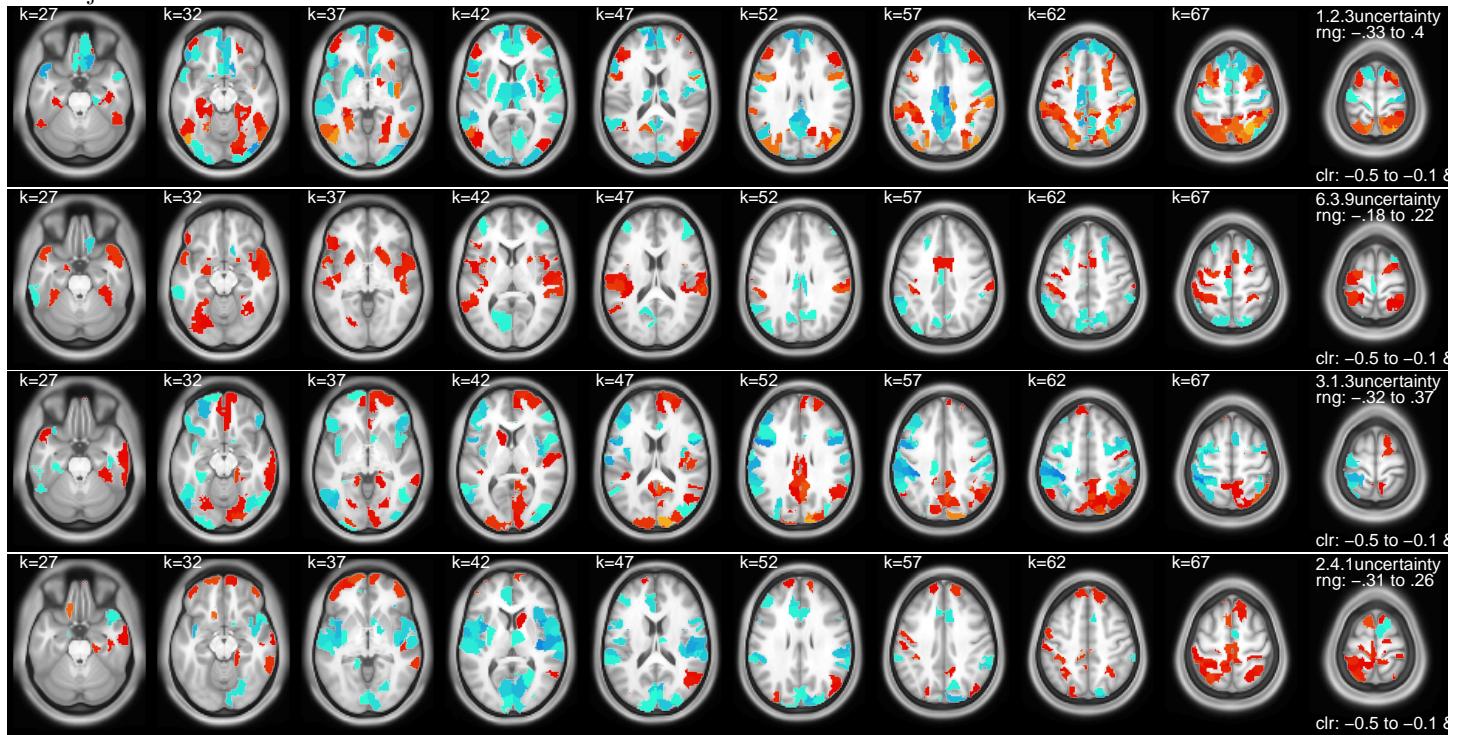
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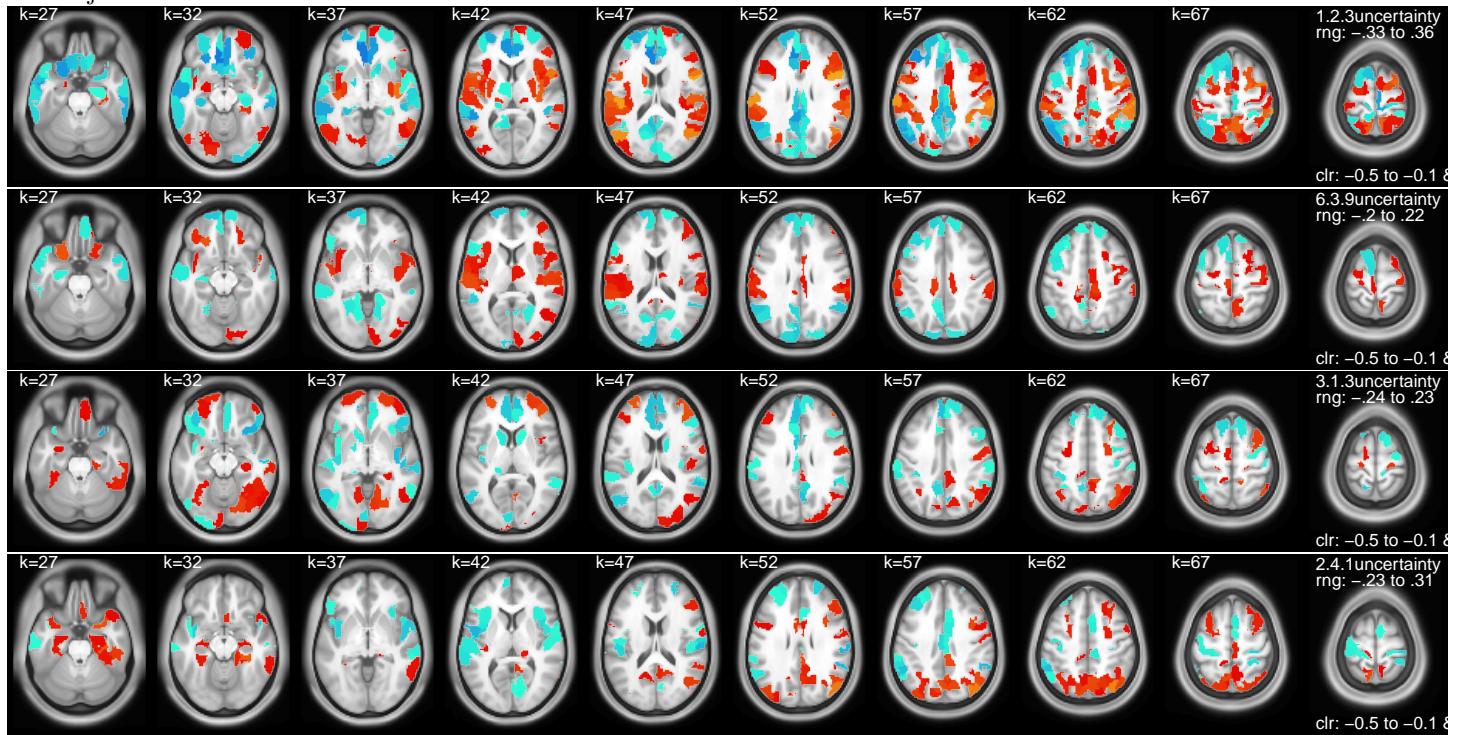
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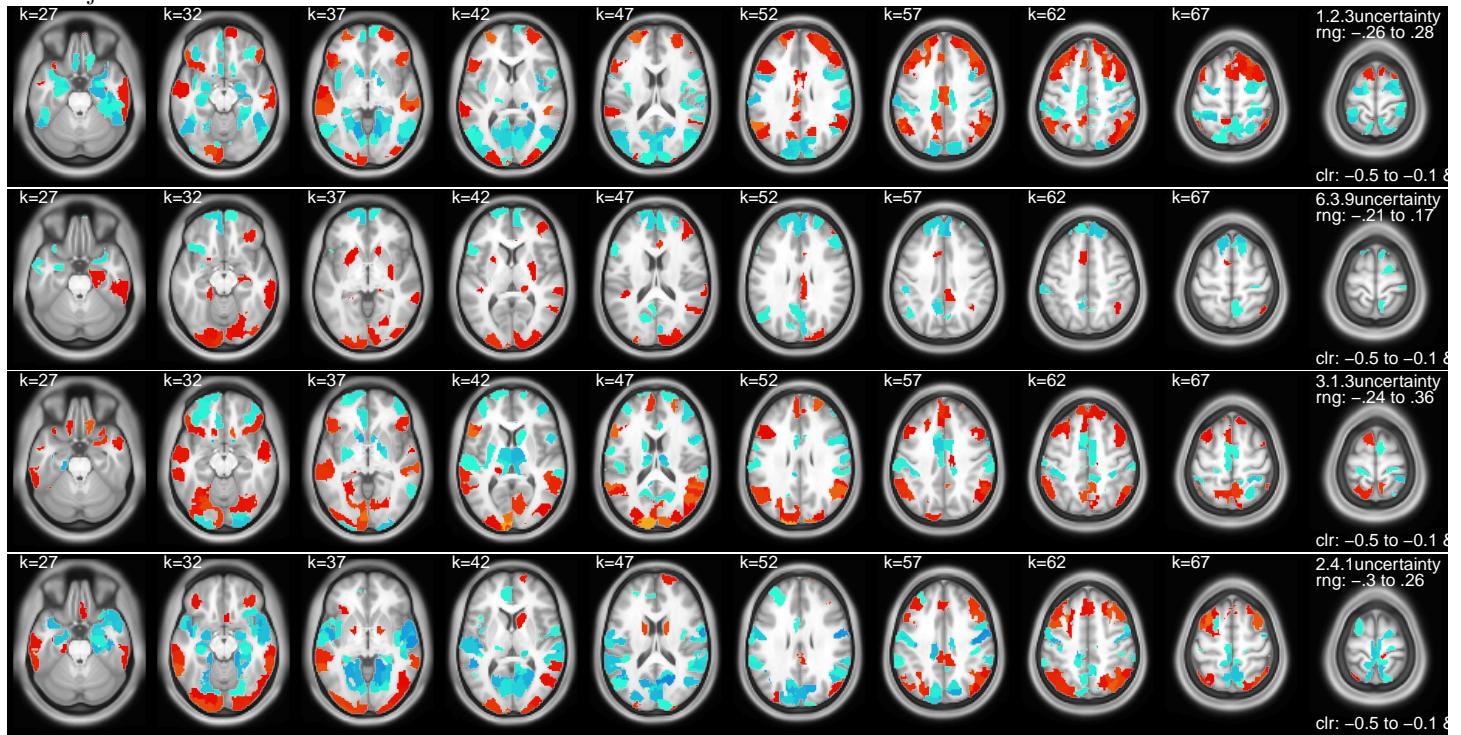
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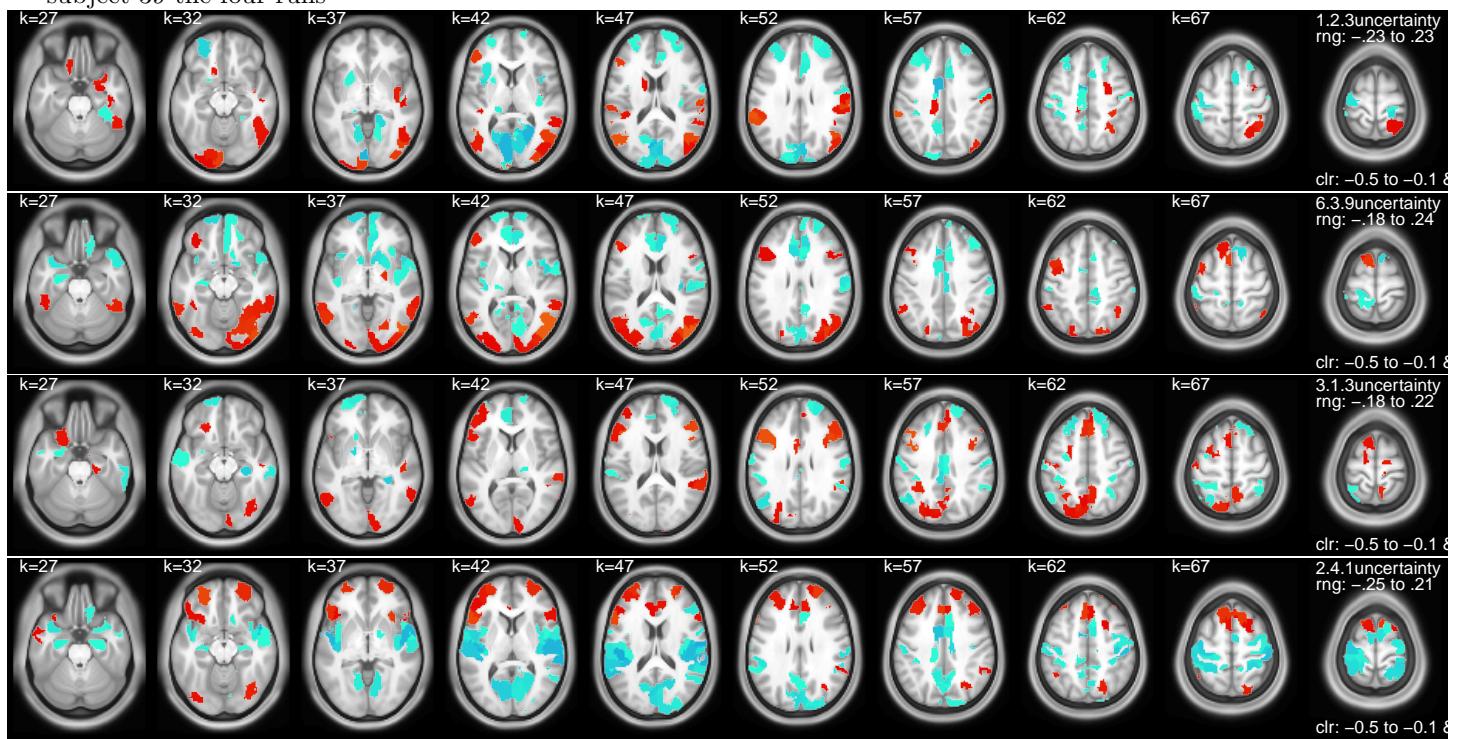
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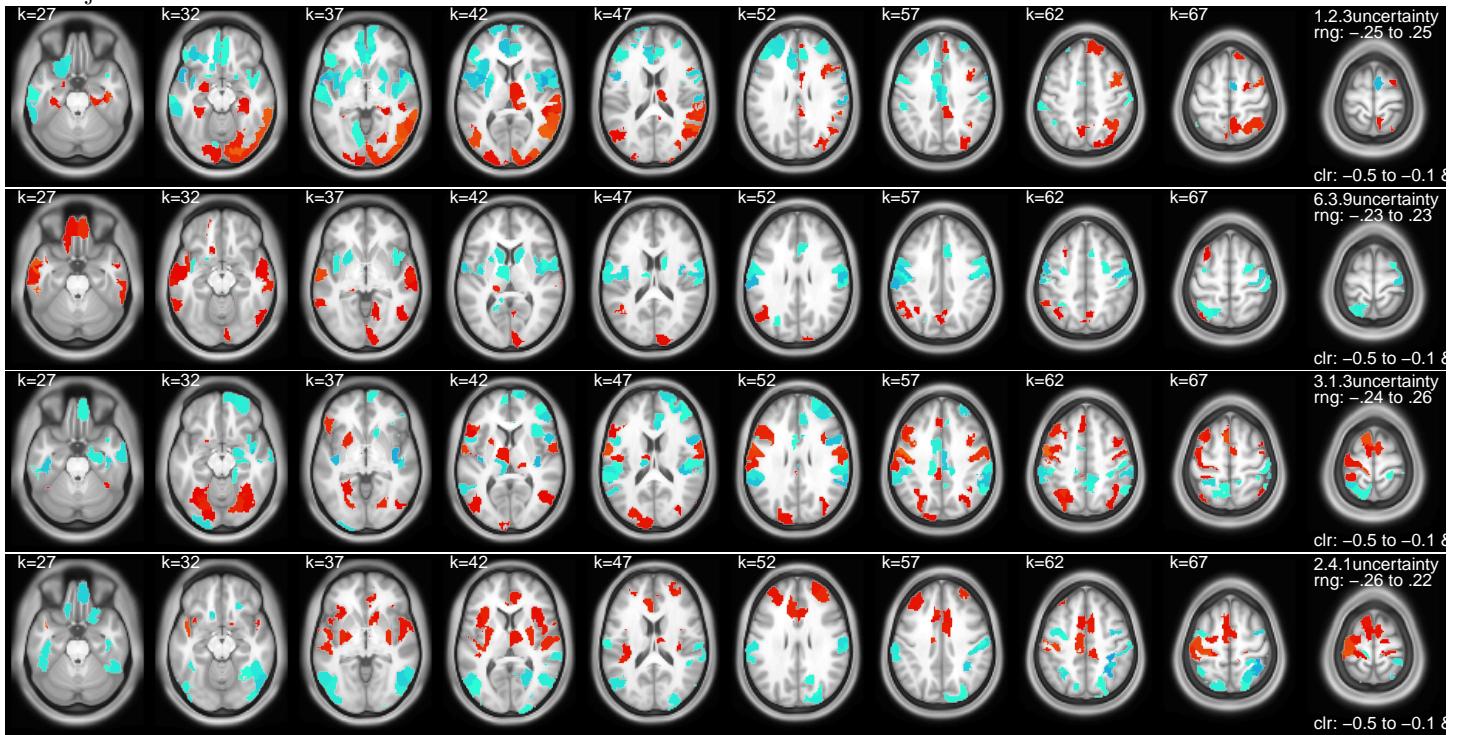
subject 38 the four runs



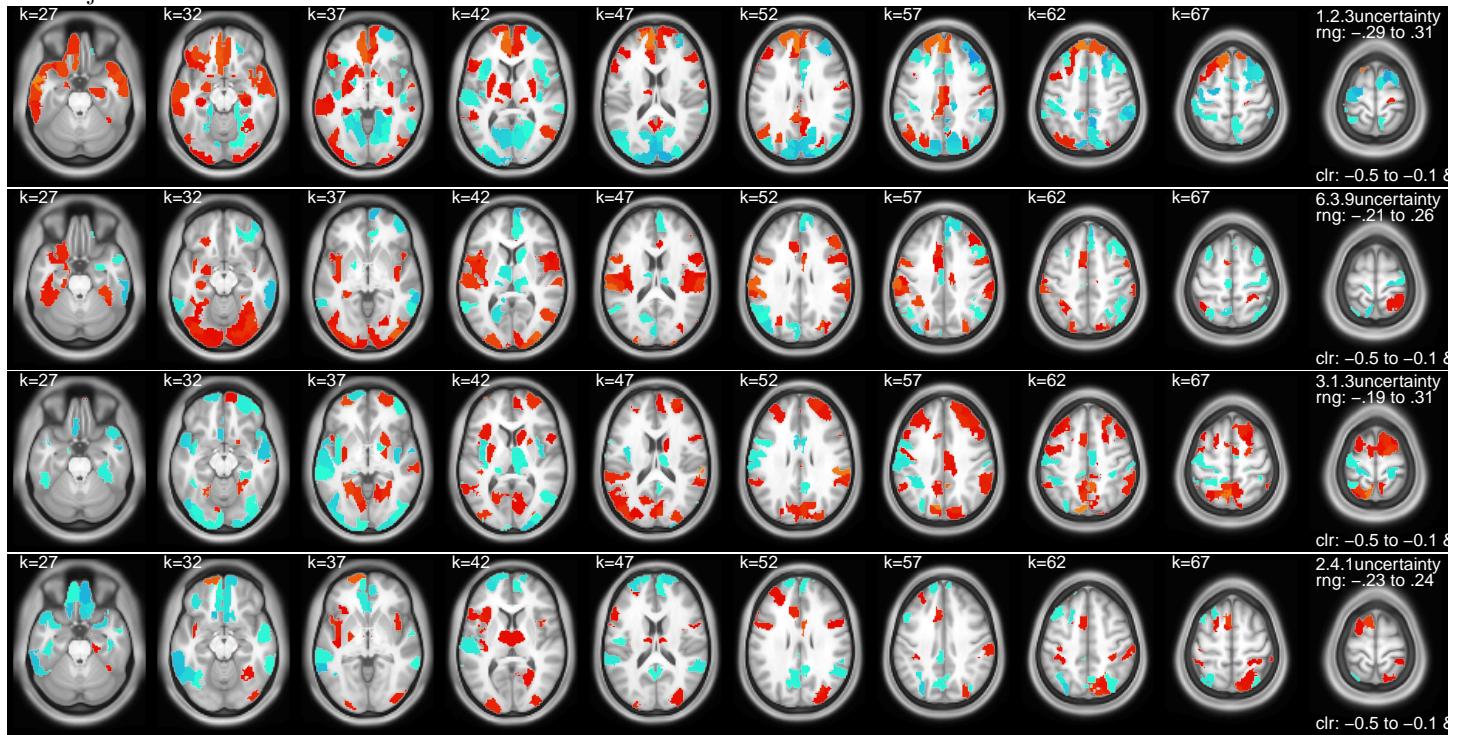
subject 39 the four runs



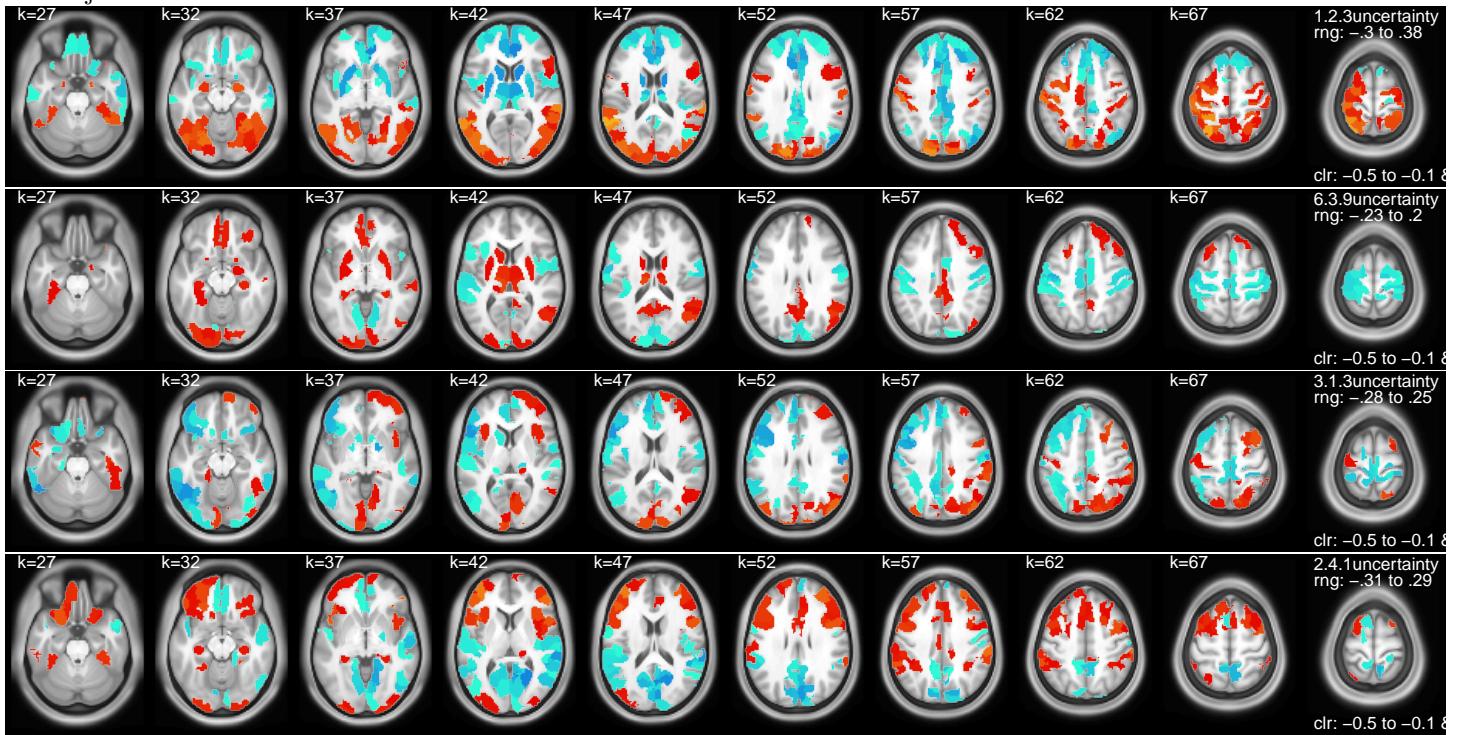
subject 40 the four runs



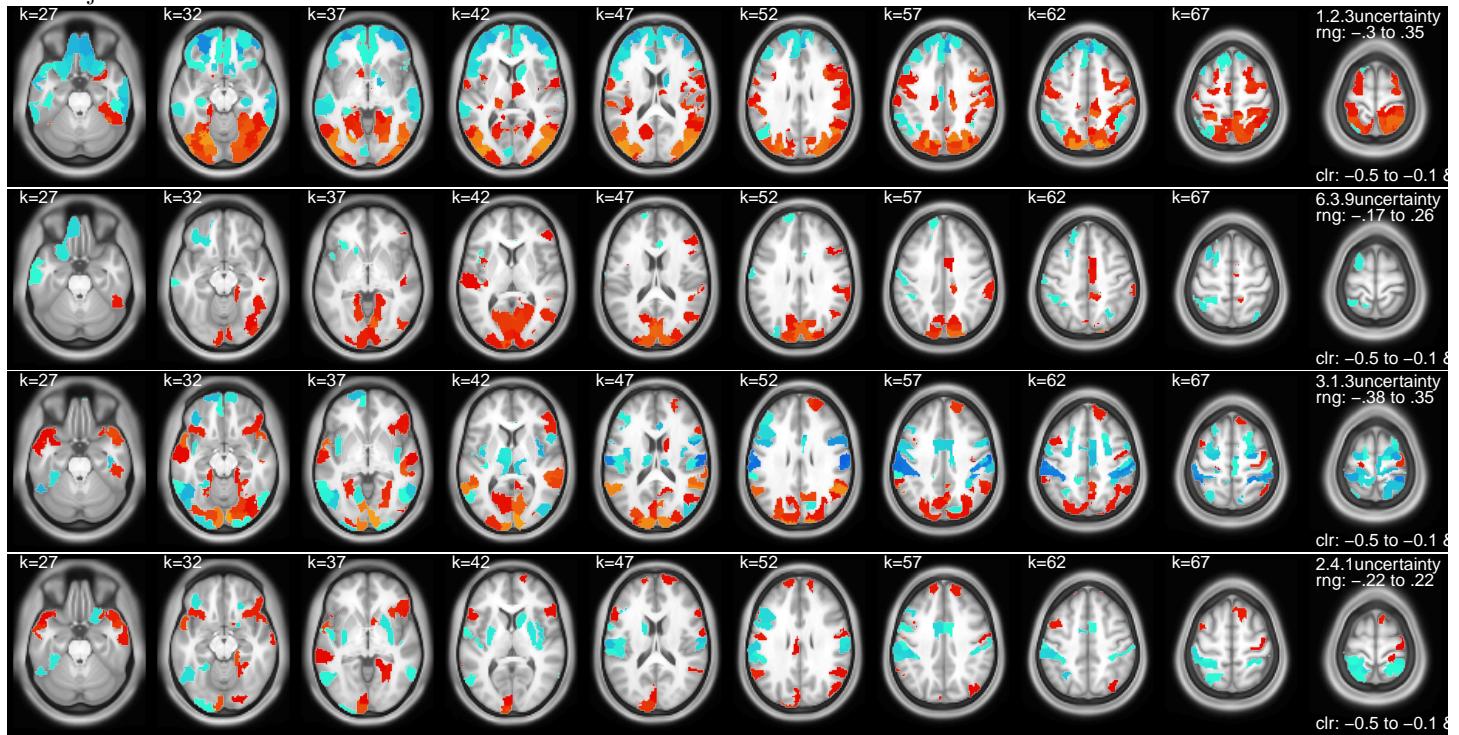
subject 41 the four runs



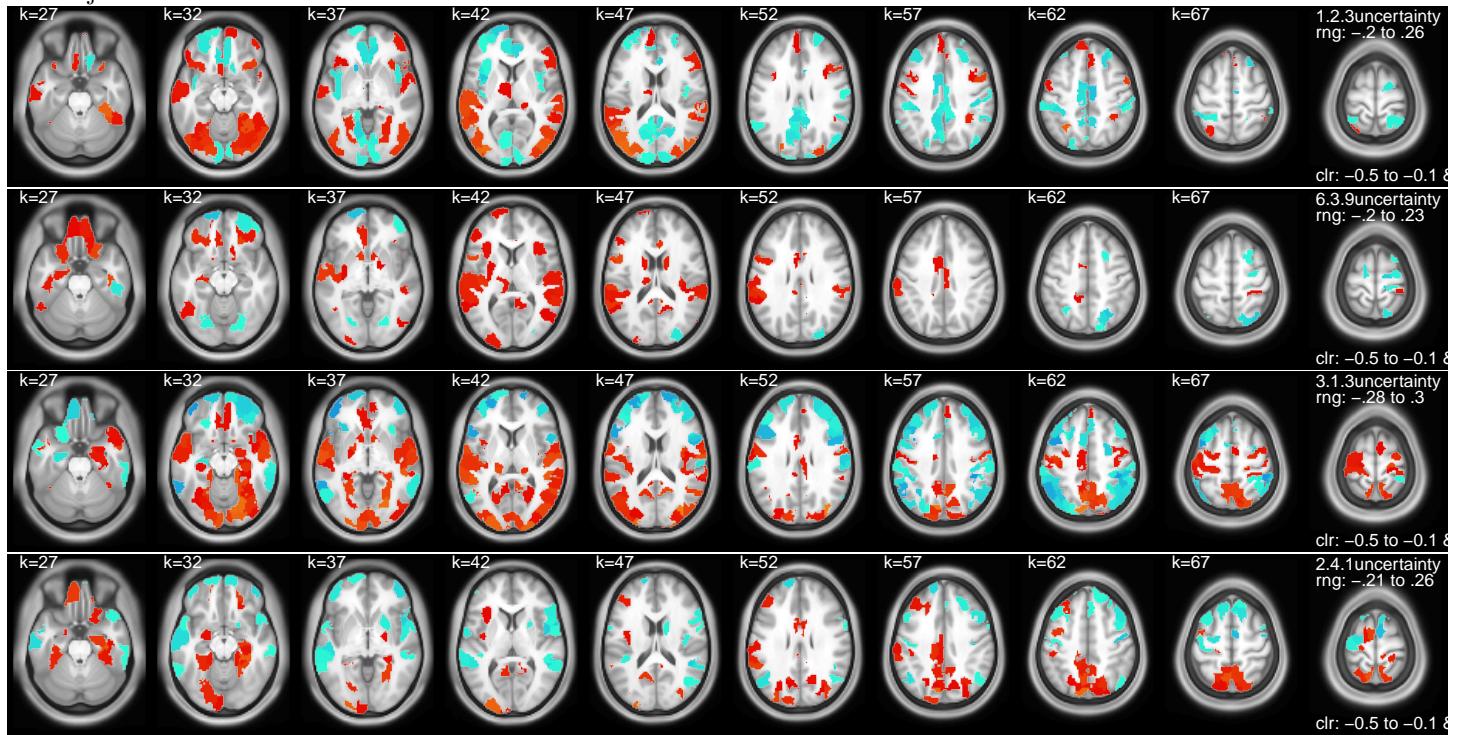
subject 42 the four runs



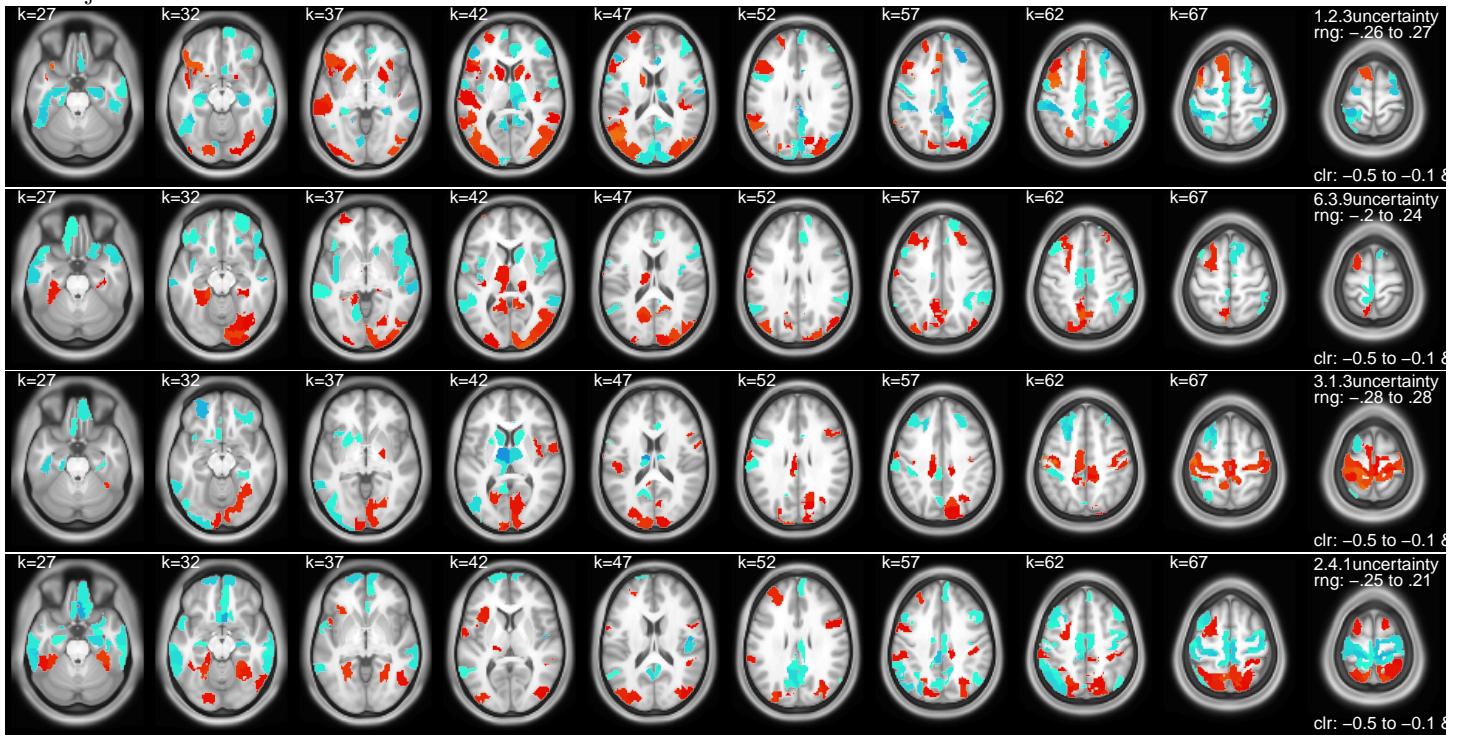
subject 43 the four runs



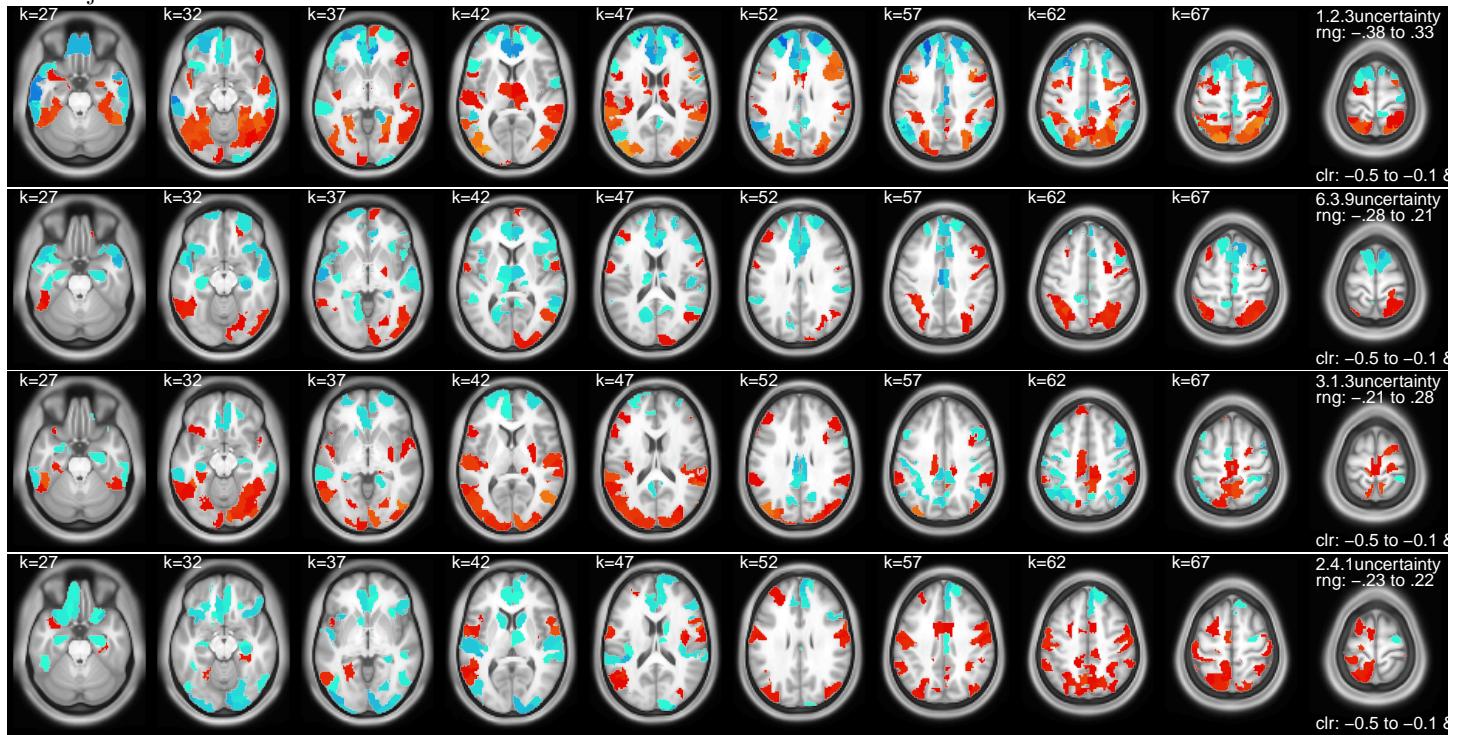
subject 44 the four runs



subject 45 the four runs



subject 46 the four runs



subject 47 the four runs

