READ\_ME

Instructions for HEP cluster correlations

1. Load vhdr file
2. Resample (Tools>Change sample rate to 250Hz)
3. Name the file: “1\_rs” (with ppt number changing for each ppt) %rs=resample
4. Run the script “1st steps” (This script does channel location/filtering). Save file: “1\_filt”
5. Do QRS manually with FMRIB EEGlab plugin. Save as “1\_qrs”
6. Run script “analisi\_ICA”. This script does the independent components analysis. Save file: “1\_ica”
7. Remove components and ECG channels manually. Save file “1\_noHBch”
8. Interpolate if bad channels and save as above (overwrite).
9. Run script “analisi\_final\_step” (epoch -200 800 /rereference to average of all channels/artefact rejection +/- 120). Save file: “1\_ar”
10. Run the “CLUSTER\_CORRELATION” script

%This script adapts fieldtrip functions to make a cluster-based permutation test for correlations between neural data, quantitative stimuli and behavioural variables.

%More details are in this link: <https://www.fieldtriptoolbox.org/faq/how_can_i_test_for_correlations_between_neuronal_data_and_quantitative_stimulus_and_behavioural_variables/>

%Warning: Adapt path “cfg\_neighb.neighbourdist” and cfg.minnbchan” as needed.