



Research Neurosciences

BESA Statistics 2.0

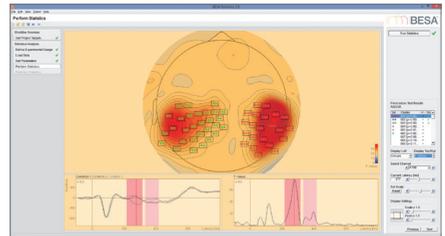
**Our well-established non-parametric
cluster permutation testing now enhanced
to ANOVA and ANCOVA**



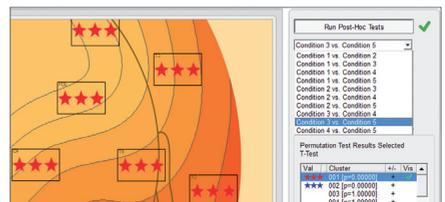
BESA Statistics 2.0

BESA Statistics 2.0 features several important enhancements, based on our well-established non-parametric cluster permutation testing

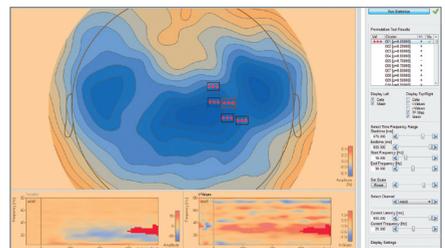
- Analysis of Variance (ANOVA)
 - One-way ANOVA for comparing more than two subject groups
 - Repeated measures one-way ANOVA for comparing more than two conditions within the same subject group
- Analysis of Covariance (ANCOVA)
 - Additionally accounts for the influence of another variable (covariate of no interest)
- Post-hoc tests with Bonferroni-Holms correction for multiple comparison of groups / conditions
- Correlation analysis for testing the relationship between covariates of interest and EEG / MEG data
- Topographic mapping of averaged time-frequency data
- Works as a standalone package with BrainVision Analyzer 2 for analyzing time and time-frequency data



ANOVA of an MEG experiment with three different auditory stimuli reveals several clusters where the null hypothesis is rejected



Post-hoc testing to enable finding pairs of groups / conditions where the null hypothesis is rejected



Mapping of time-frequency difference data of an MEG experiment averaged over the selected time-frequency interval of cluster #1

NEUROSPEC

Research Neurosciences