# NIRS analyse – pipeline

27/10/2015 – Marc van Wanrooij and Luuk van de Rijt

## Pre-proccesing

ft\_preprocessing

ft\_resampledata

ft\_transform\_ODs pre-processing

NO artefact\_rejection and scalp-coupling index (SCI)

ft\_resampledata

nirs\_rcs

nirs\_trigger

ft\_redefinetrial ft\_redefinetrial  
 STANDARD DEVIANT

Pollonini 🡪 GLM, F>15, *glmfit*/*regress* – area-GLM-F-ANOVA

ft\_timelockanalysis

ft\_timelockbaseline

ft\_multiplotER / ft\_topoplotER 🡪 Interpolate coordinates of 10-10EEG to coordinates of NIRS- head cap (x- and y-values in .lay)

* Area of activation (surface)
* Localization of activation – alignment over subjects?
* Single-channel amplitude

ANOVA

Factor levels

EVENT STA vs. DEV

HEMISPHERE LEFT vs. RIGHT

BEHAVIOR PASSIVE vs. ACTIVE

SUBJECT 1 t/m 12 (repeated measures, within-subject, paired)

*Possible interactions*

**HEMISPHERE** X **BEHAVIOR**

**EVENT** X **BEHAVIOR**

**HEMI** X **EVENT**

**H** X **E** X **B**