

**TECHNICAL UNIVERSITY OF KOŠICE**  
**FACULTY OF ELECTRICAL ENGINEERING AND INFORMATICS**

Analysis of non-auditory effects on contextual plasticity  
in spatial hearing  
Master thesis

**Appendix D**  
**Figures**

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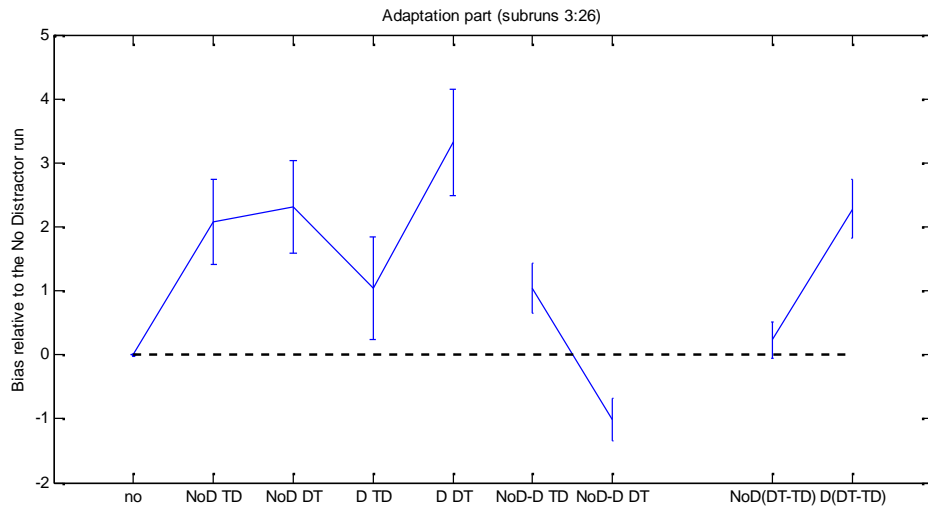
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## **Introduction**

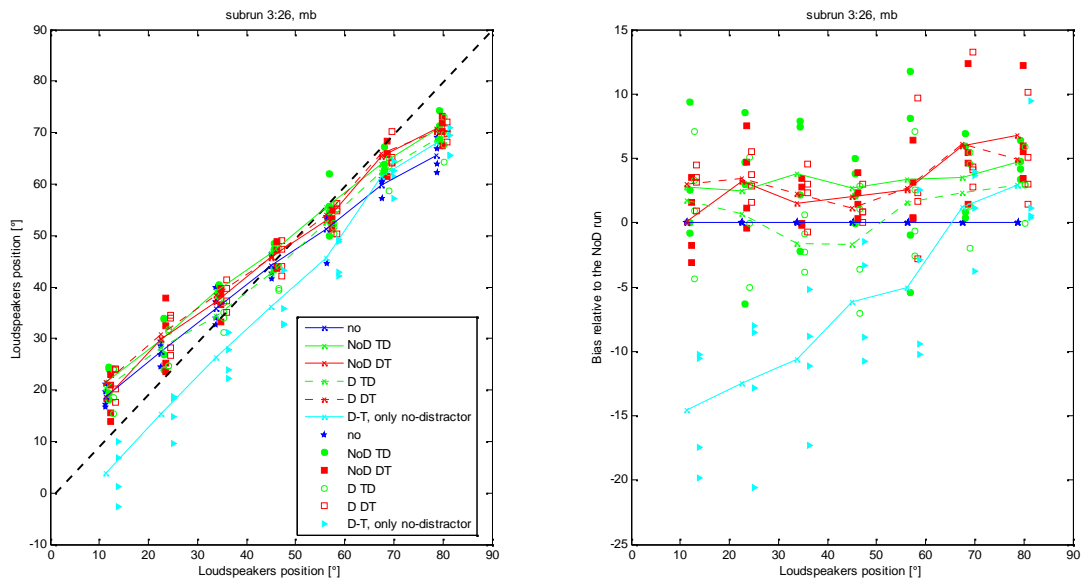
This appendix C contains some of additional figures that were as outputs of our analyses. The figures may present either analysis of single subjects for certain type of analysis or any other analyses that were performed in order to get a clearer idea about results of data analysis.

# 1 Experiment A

## 1.1 Bias analysis



**Fig. 1 Overall contextual and precedence effect**



**Fig. 2 Bias (left), bias relative to the no-distr run (right), subject: mb**

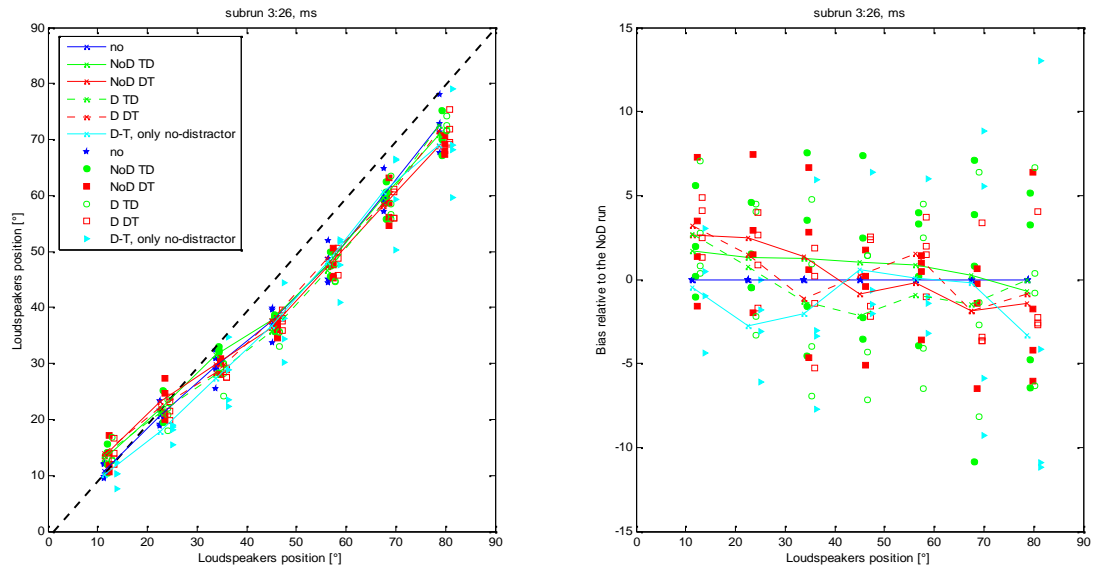


Fig. 3 Bias (left), bias relative to the no-distr run (right), subject: ms

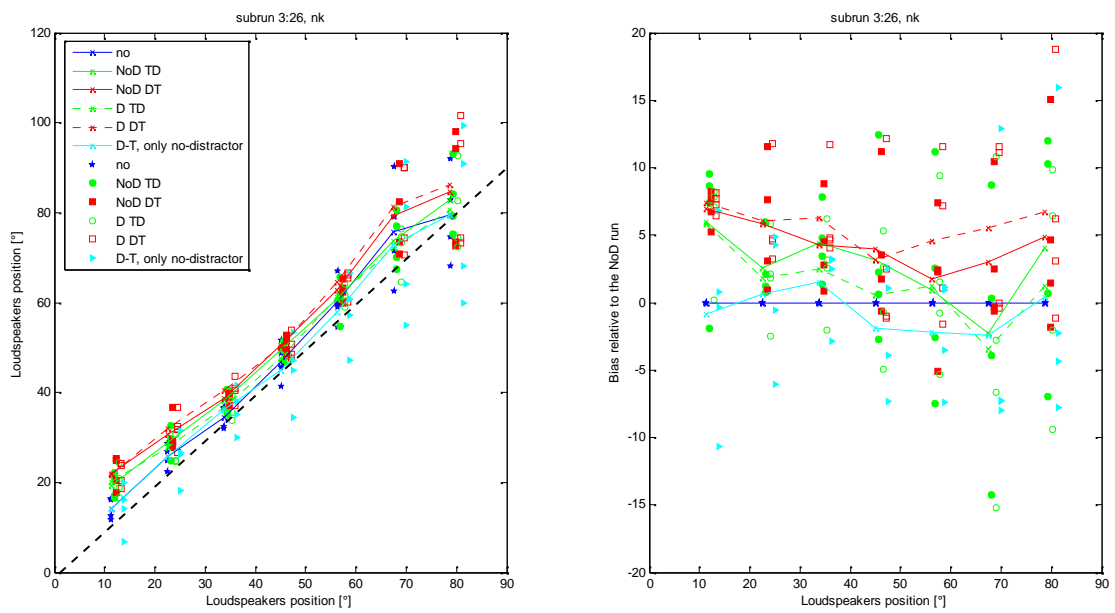


Fig. 4 Bias (left), bias relative to the no-distr run (right), subject: nk

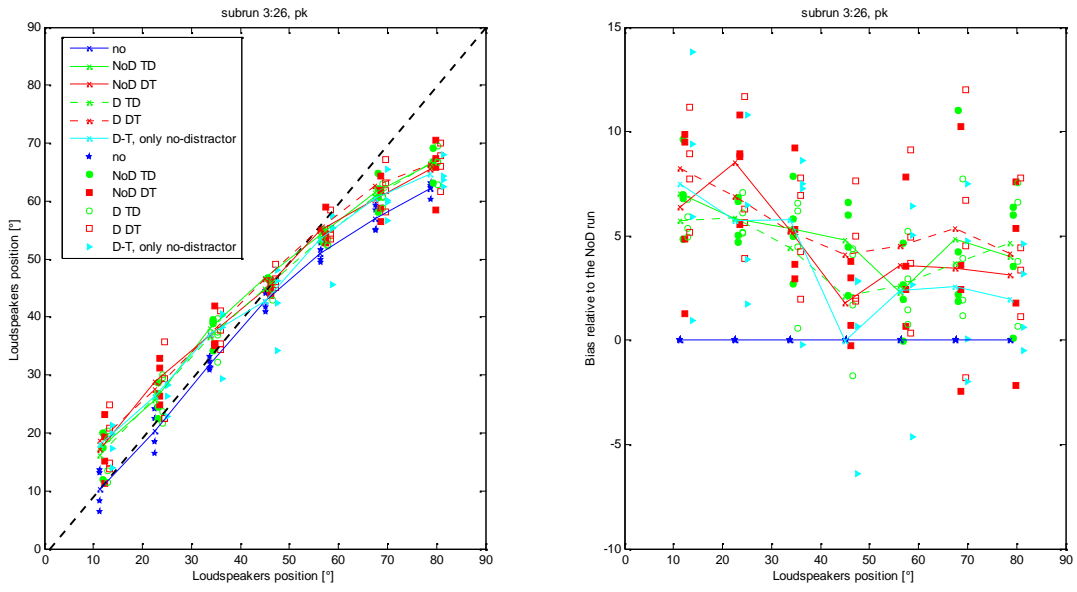


Fig. 5 Bias (left), bias relative to the no-distr run (right), subject: pk

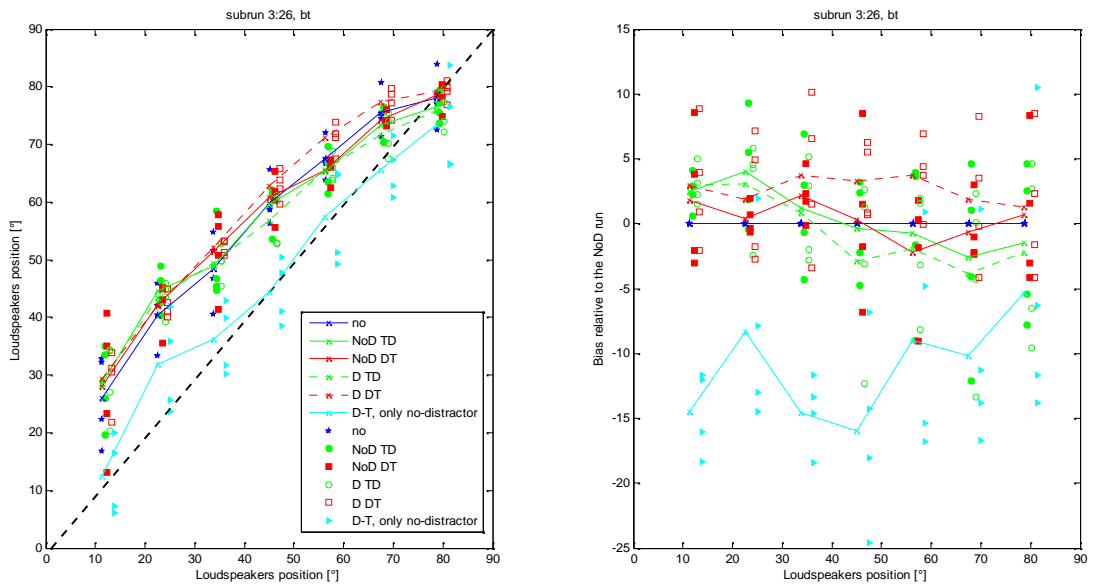


Fig. 6 Bias (left), bias relative to the no-distr run (right), subject: bt



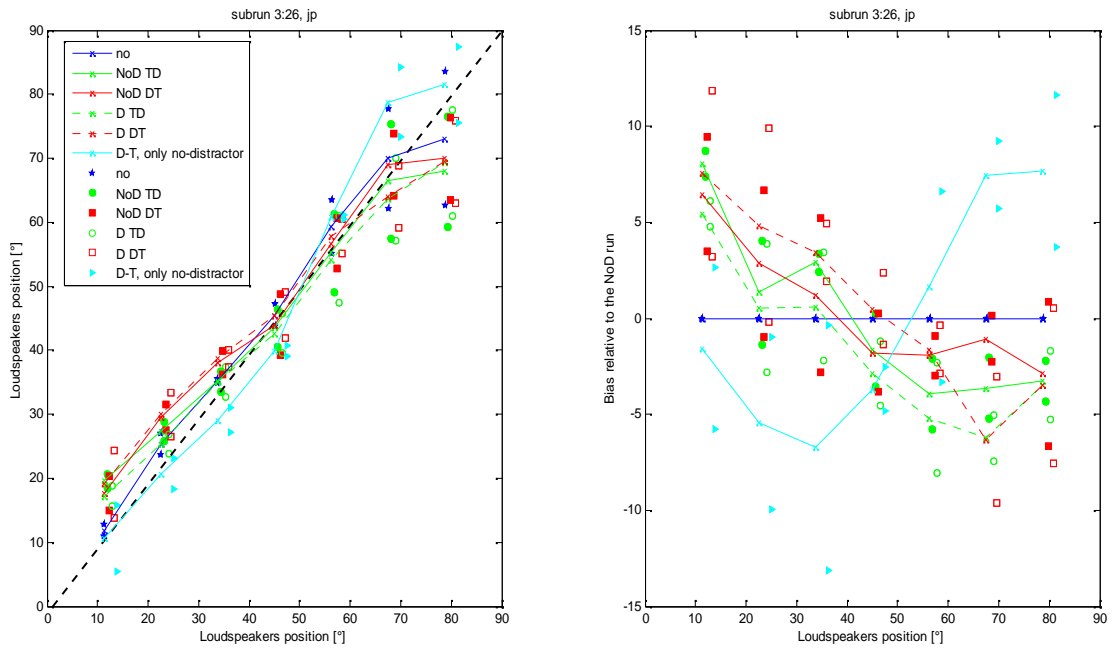


Fig. 7 Bias (left), bias relative to the no-distr run (right), subject: jp

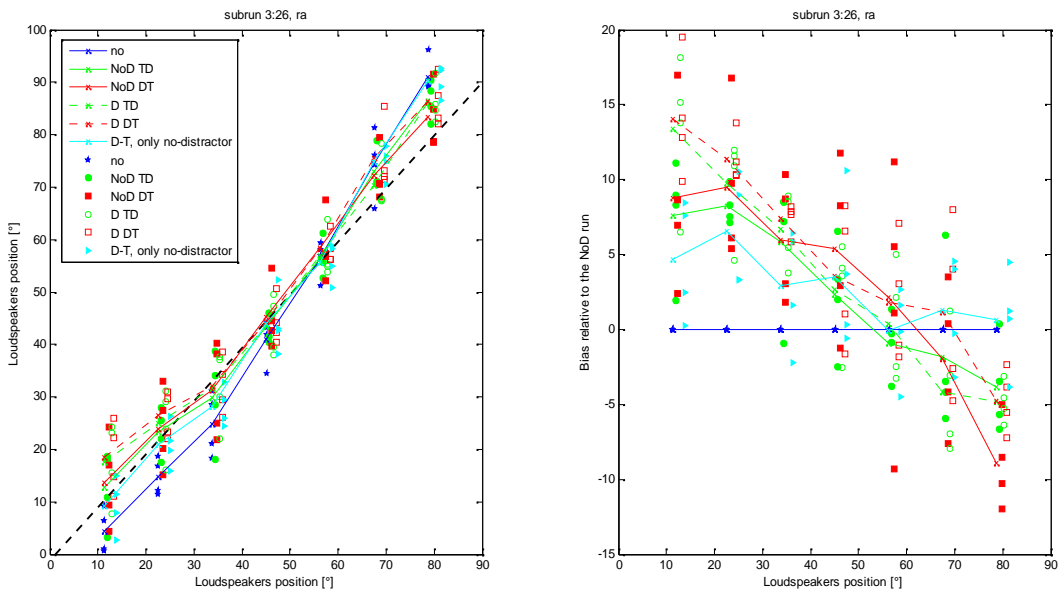
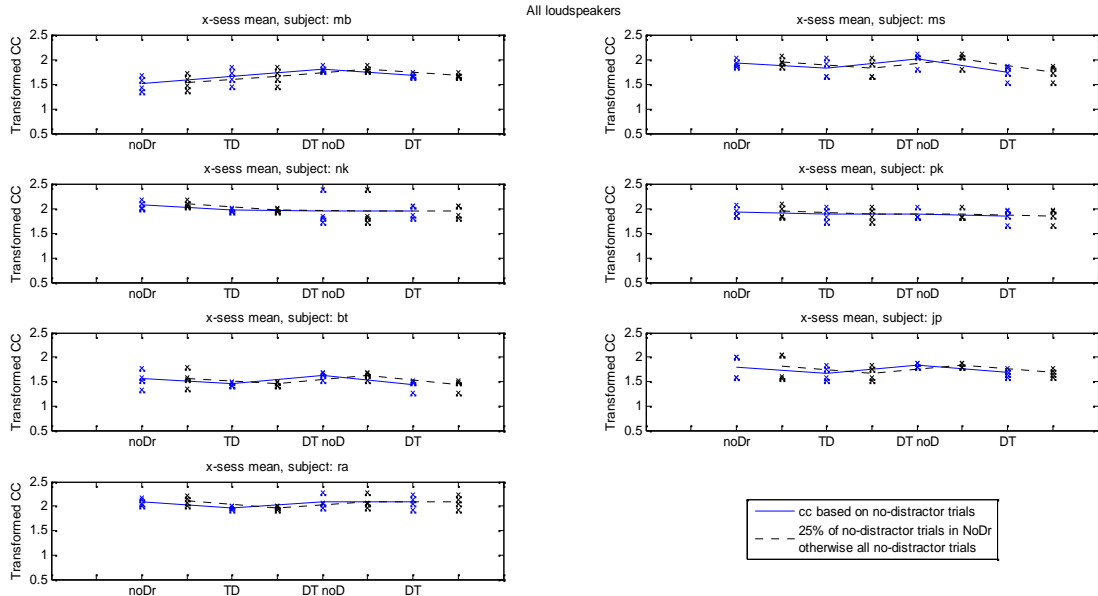


Fig. 8 Bias (left), bias relative to the no-distr run (right), subject: ra

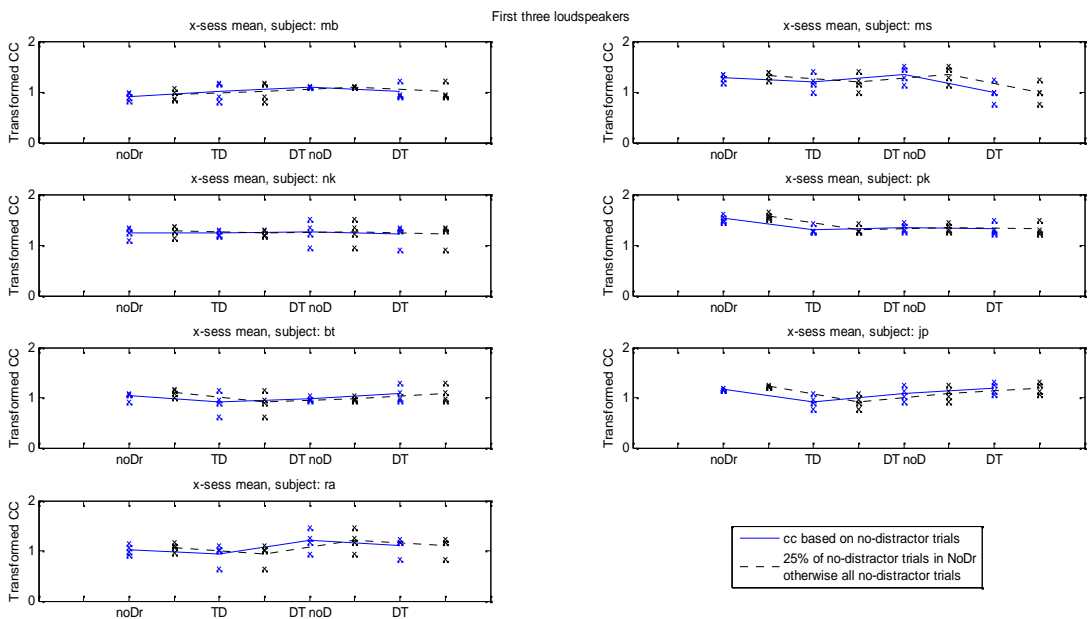
## 1.2 Temporal profile analysis

The temporal profile analysis can be found in master thesis. No extra plots for this analysis were performed.

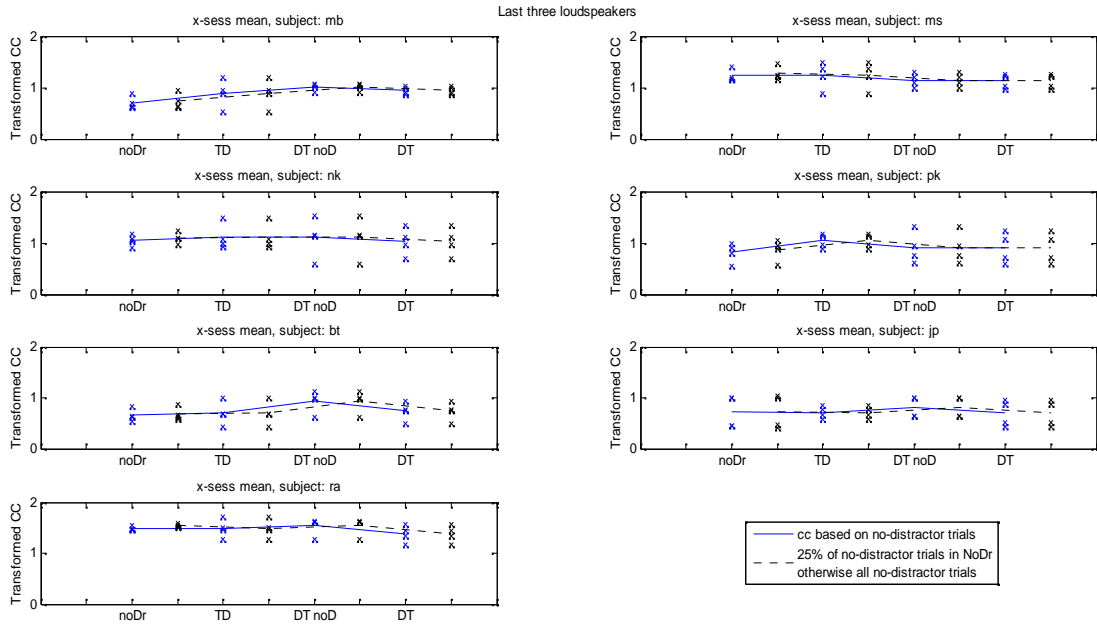
## 1.3 Correlation coefficients analysis



**Fig. 9** Analysis of correlation coefficients (Z-Fisher transformation), for single subject, all loudspeakers included, asterisk represent values in four sessions

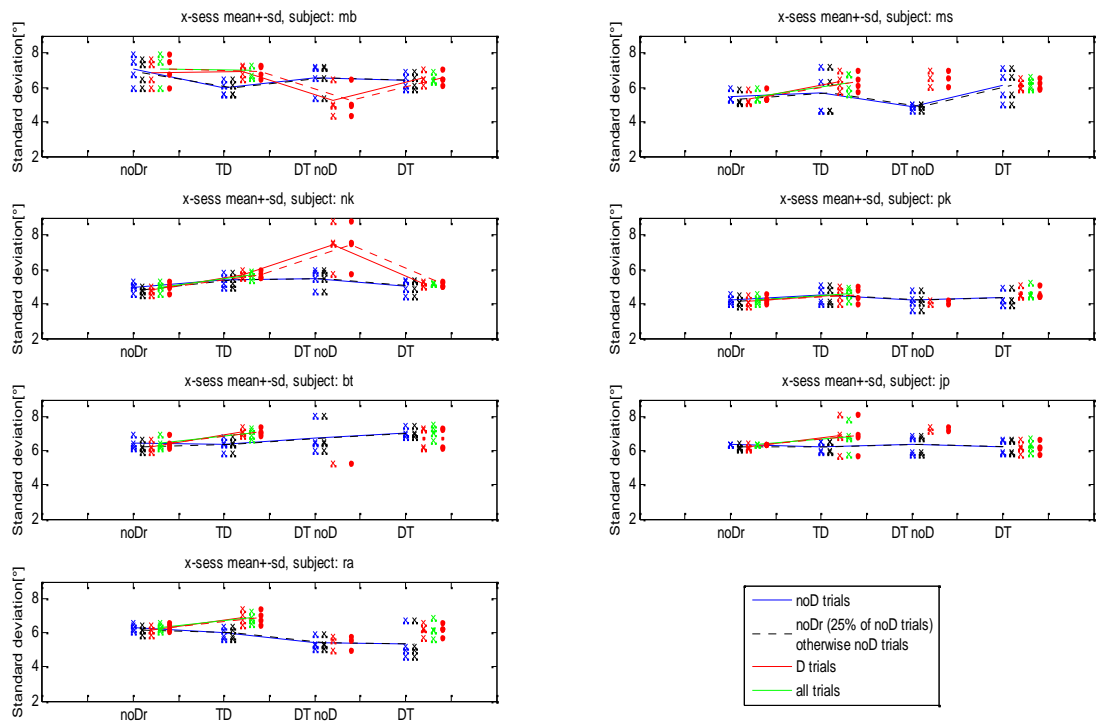


**Fig. 10** Analysis of correlation coefficients (Z-Fisher transformation), for single subject, first three loudspeakers included, asterisks represent values in four sessions



**Fig. 11 Analysis of correlation coefficients (Z-Fisher transformation), for single subject, last three loudspeakers included, asterisks represent values in four sessions**

## 1.4 Standard deviations analysis



**Fig. 12** Analysis of standard deviations for single subject, asterisks represent values in four sessions

## 2 Experiment B

### 2.1 Bias analysis

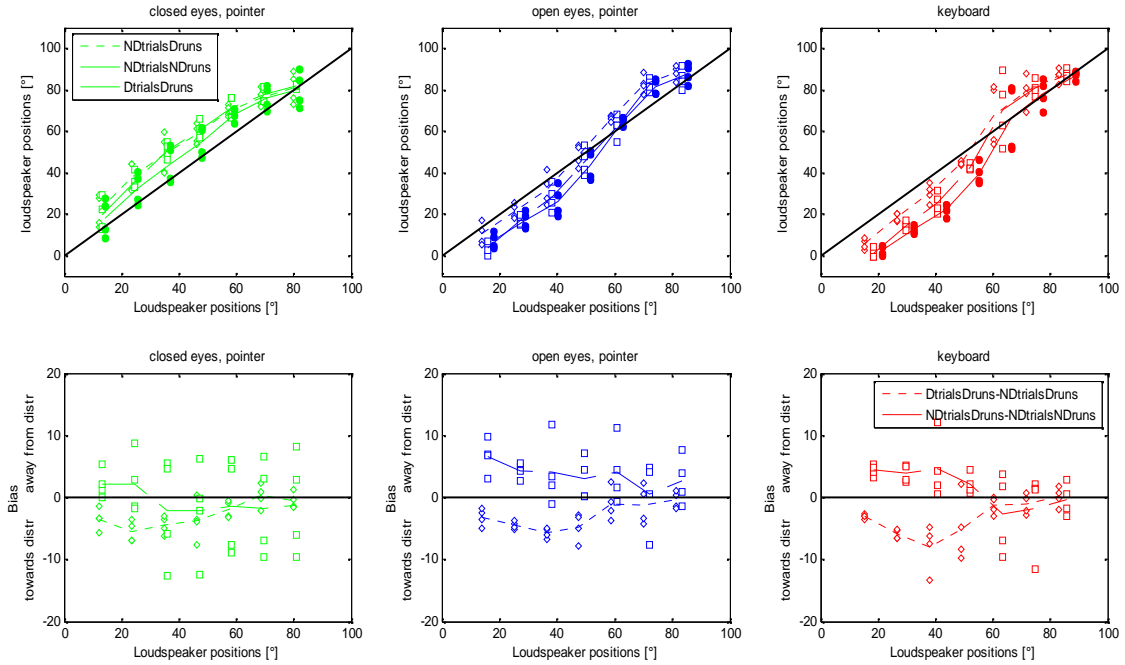


Fig. 13 Analysis of bias in responses, subject: bt

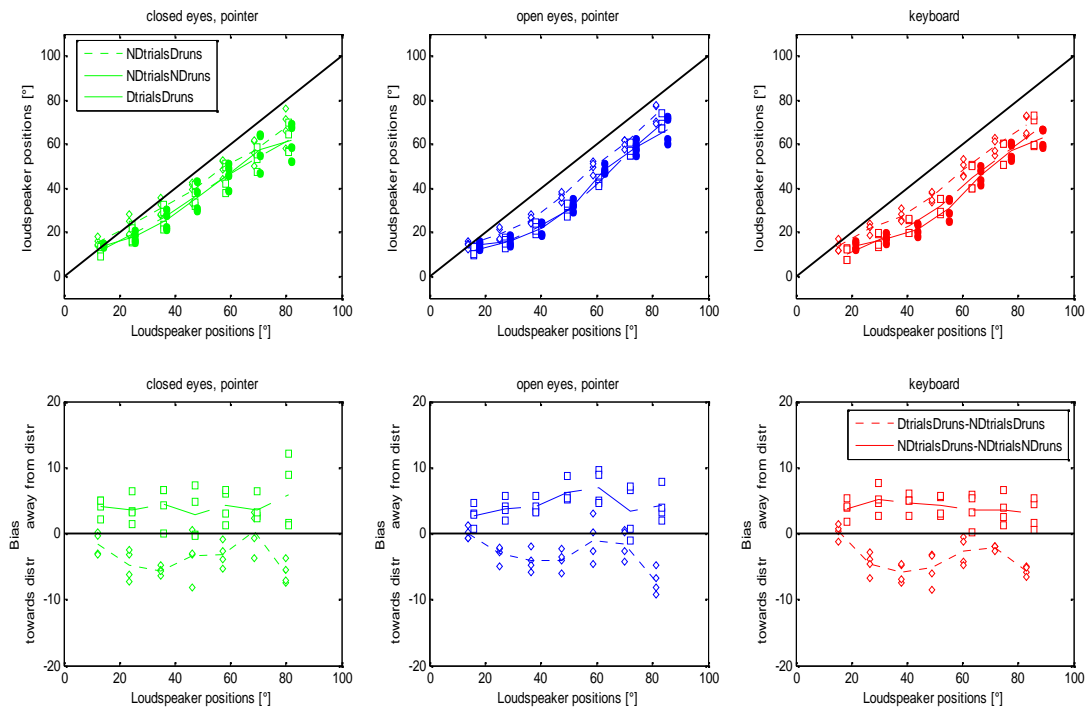


Fig. 14 Analysis of bias in responses, subject: dh

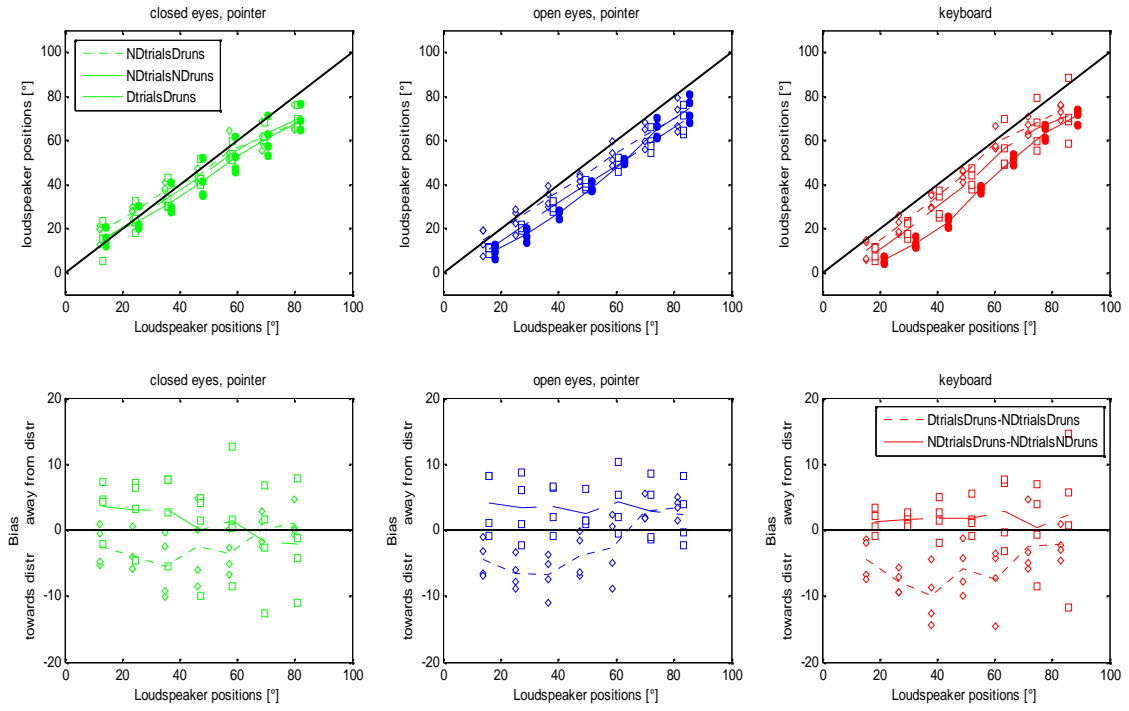


Fig. 15 Analysis of bias in responses, subject: jl

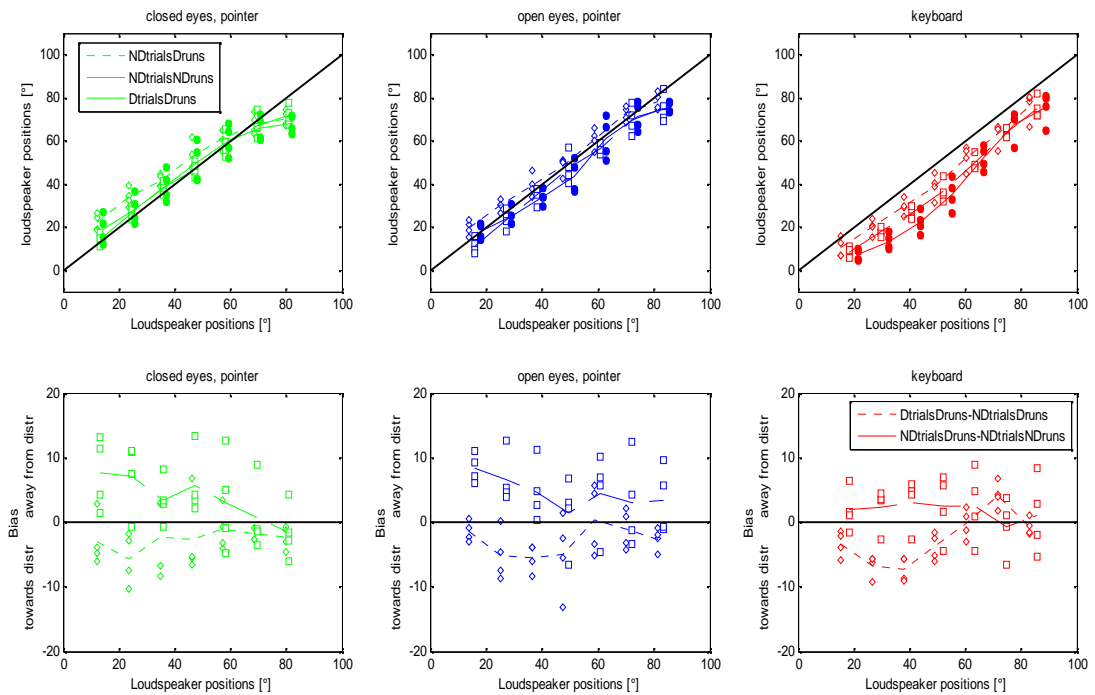


Fig. 16 Analysis of bias in responses, subject: jp

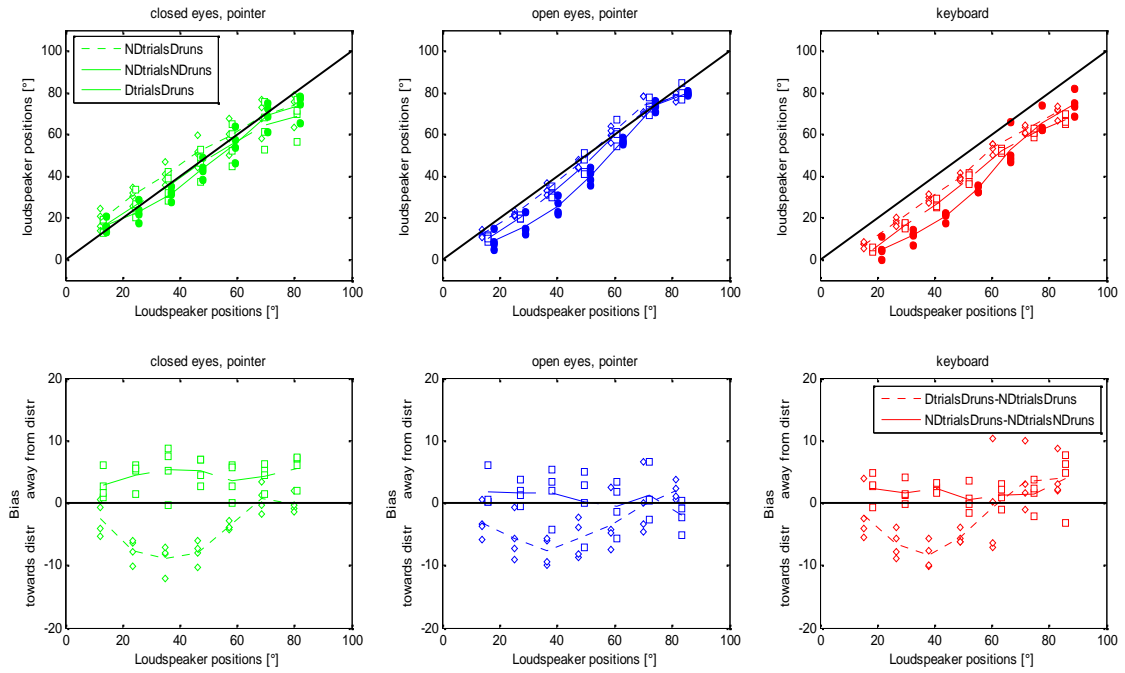


Fig. 17 Analysis of bias in responses, subject: kj

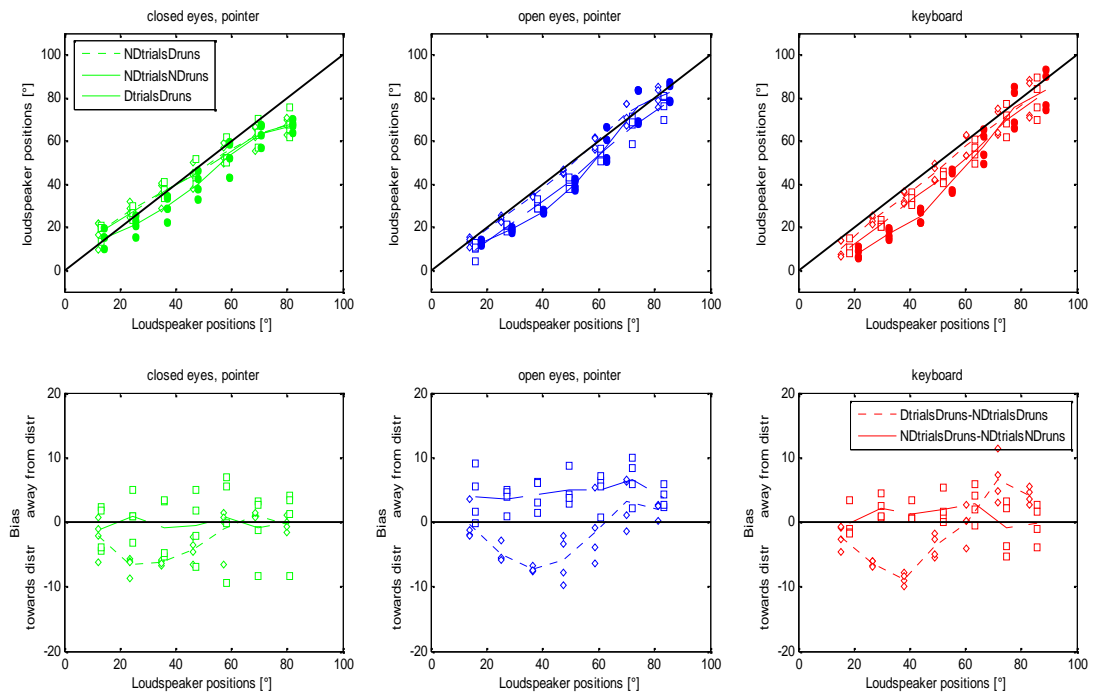


Fig. 18 Analysis of bias in responses, subject: lh

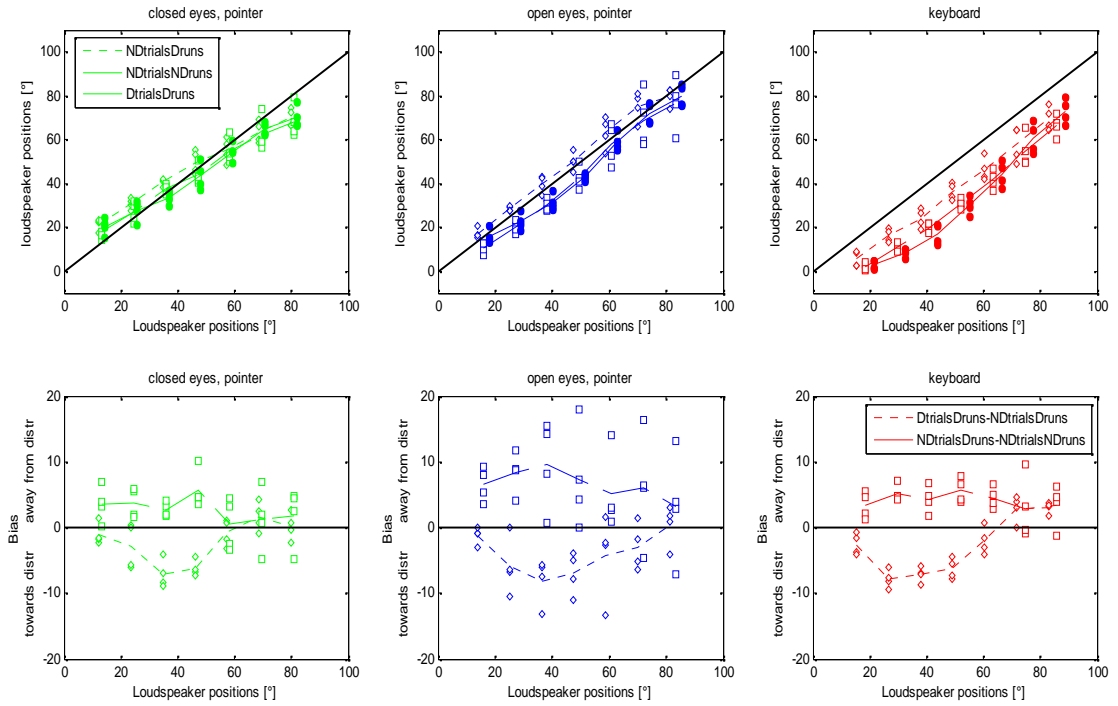


Fig. 19 Analysis of bias in responses, subject: mb

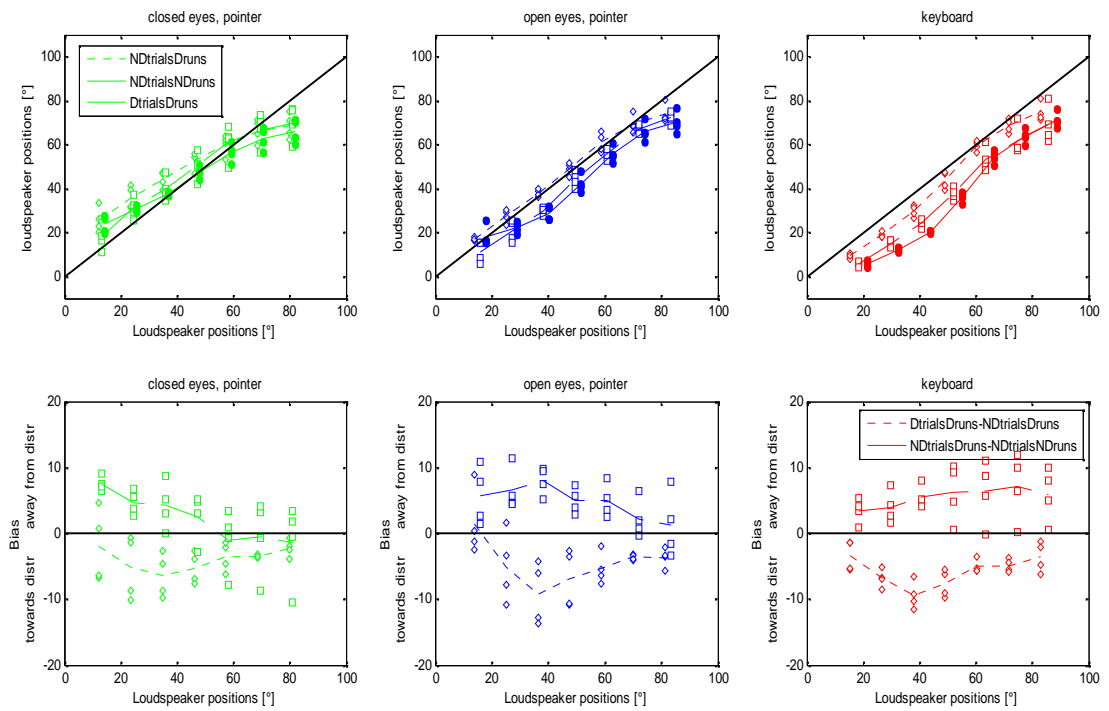


Fig. 20 Analysis of bias in responses, subject: mk



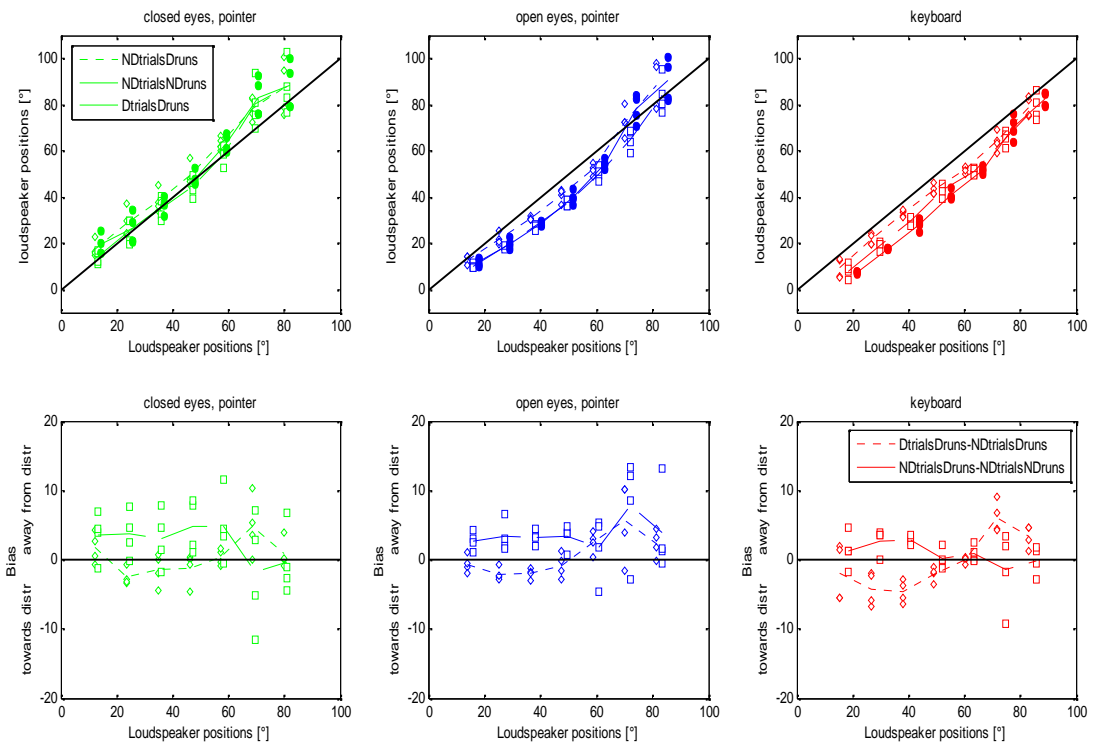


Fig. 21 Analysis of bias in responses, subject: nk

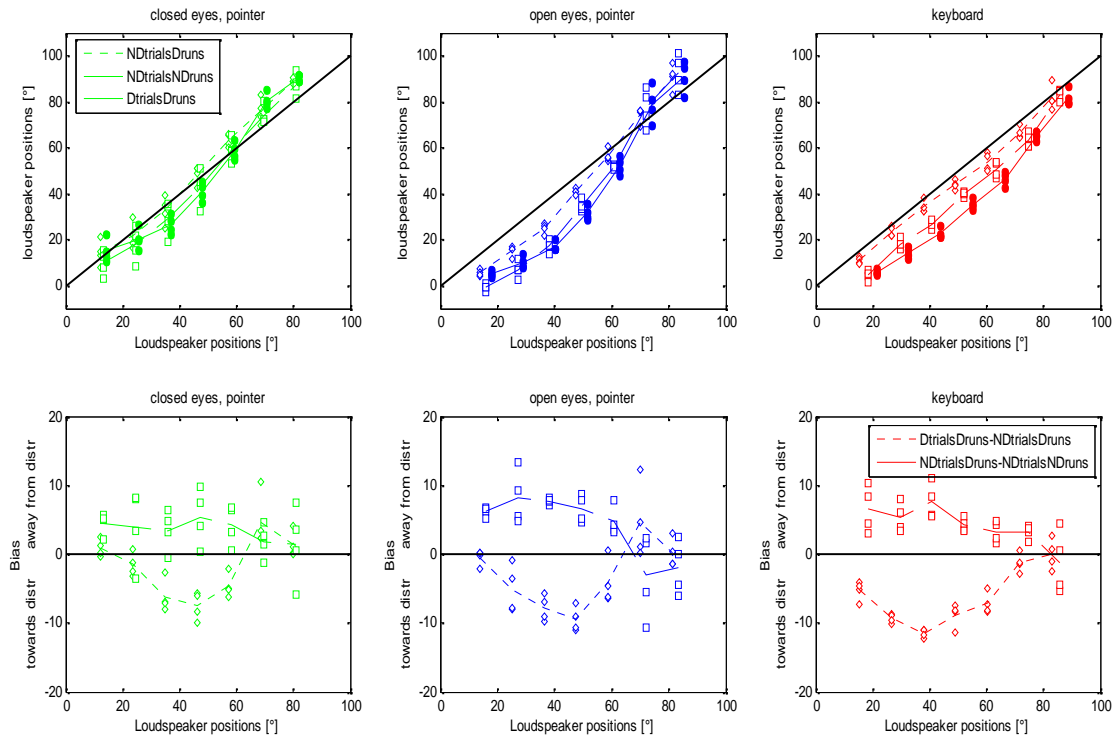
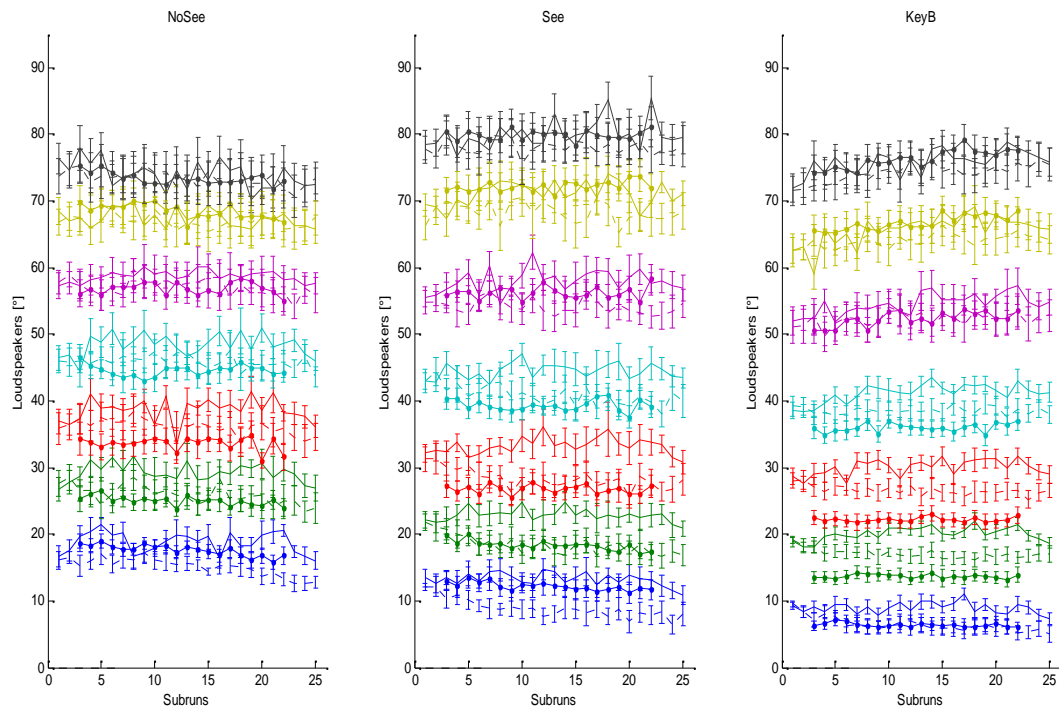
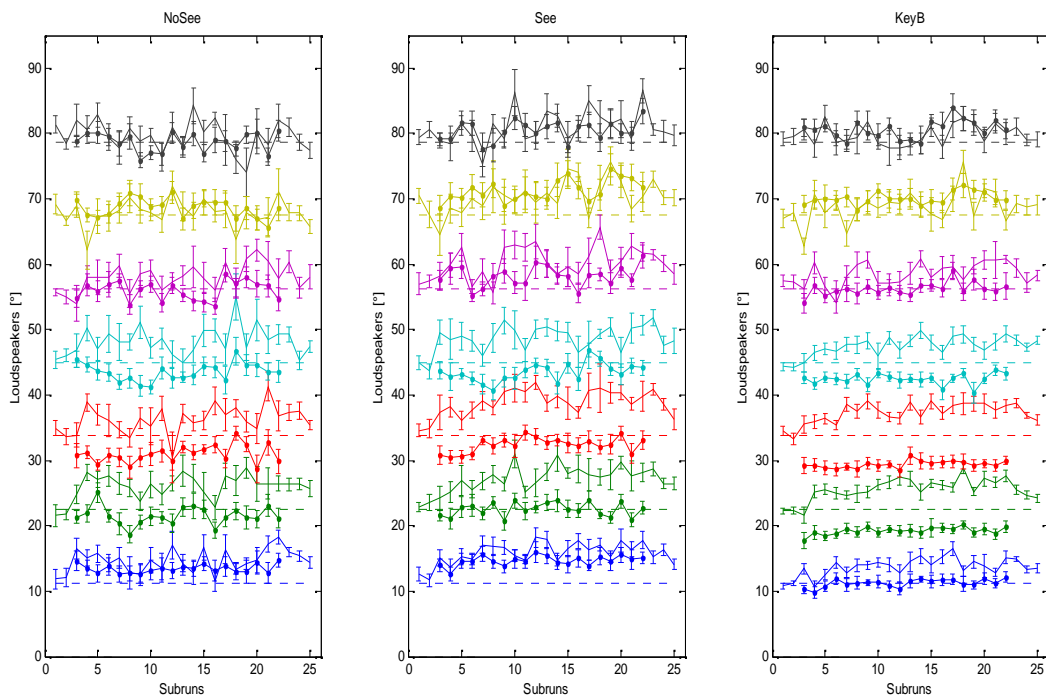


Fig. 22 Analysis of bias in responses, subject: ra

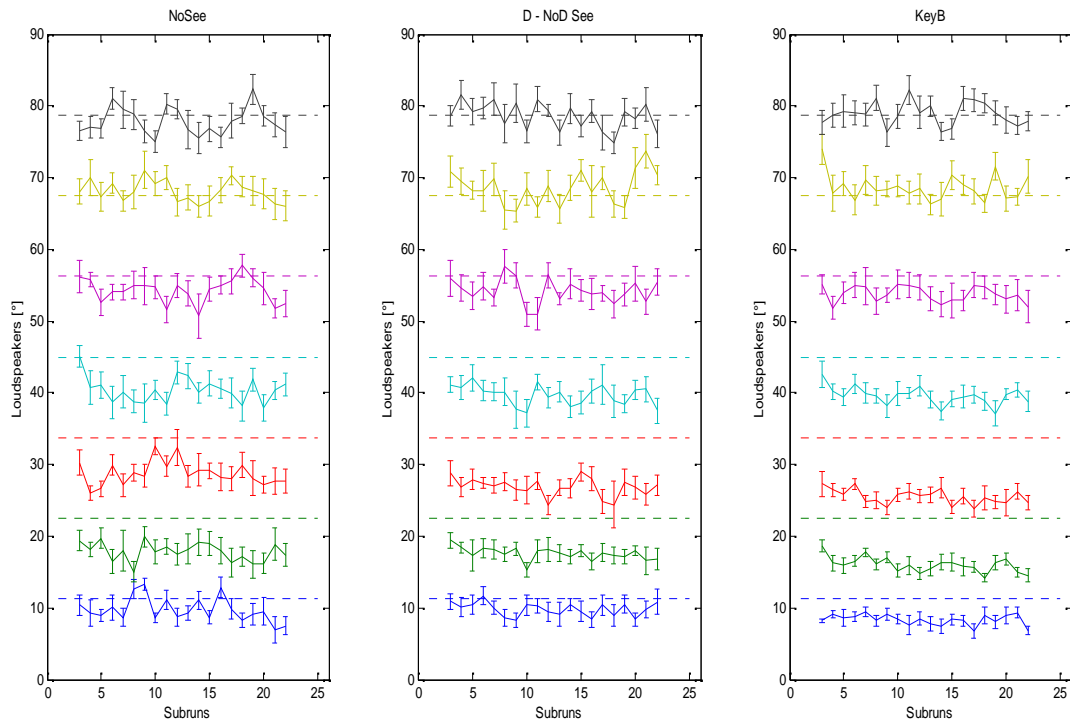
## 2.2 Temporal profile analysis



**Fig. 23** Temporal profile of responses (solid line: no distractor trials:distractor runs, solid-dotted line: distractor trials:distractor runs, dashed line:no distractor trials: no distractor run)

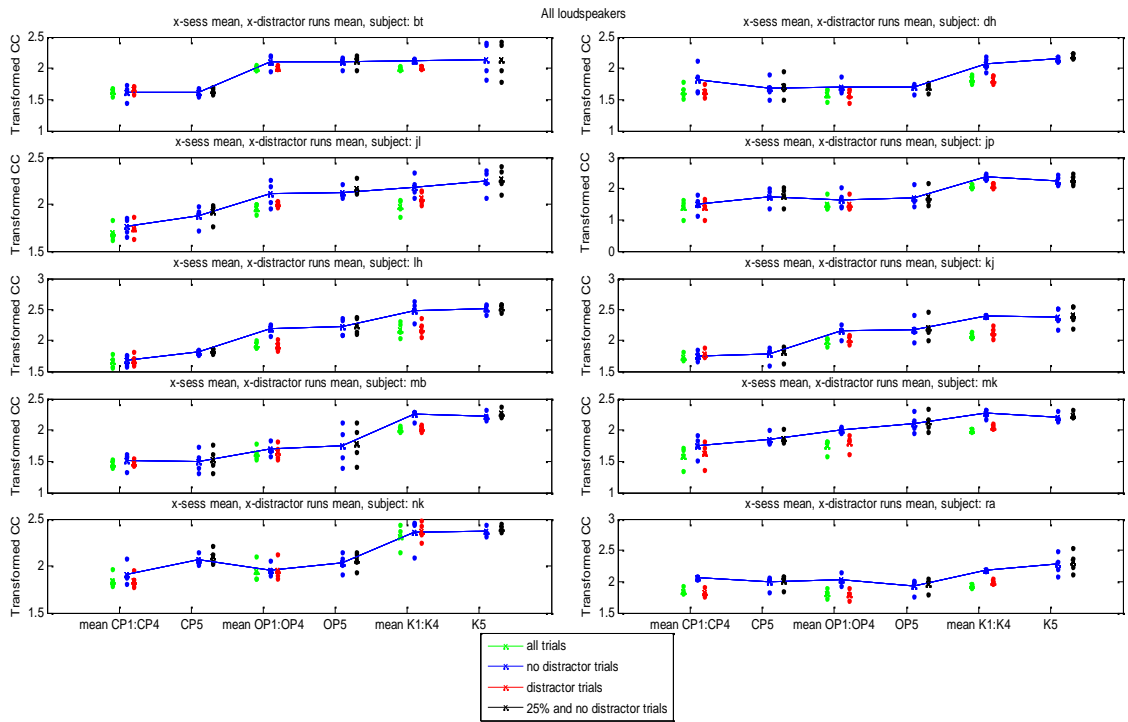


**Fig. 24** Temporal profile of responses relative to the NoD run

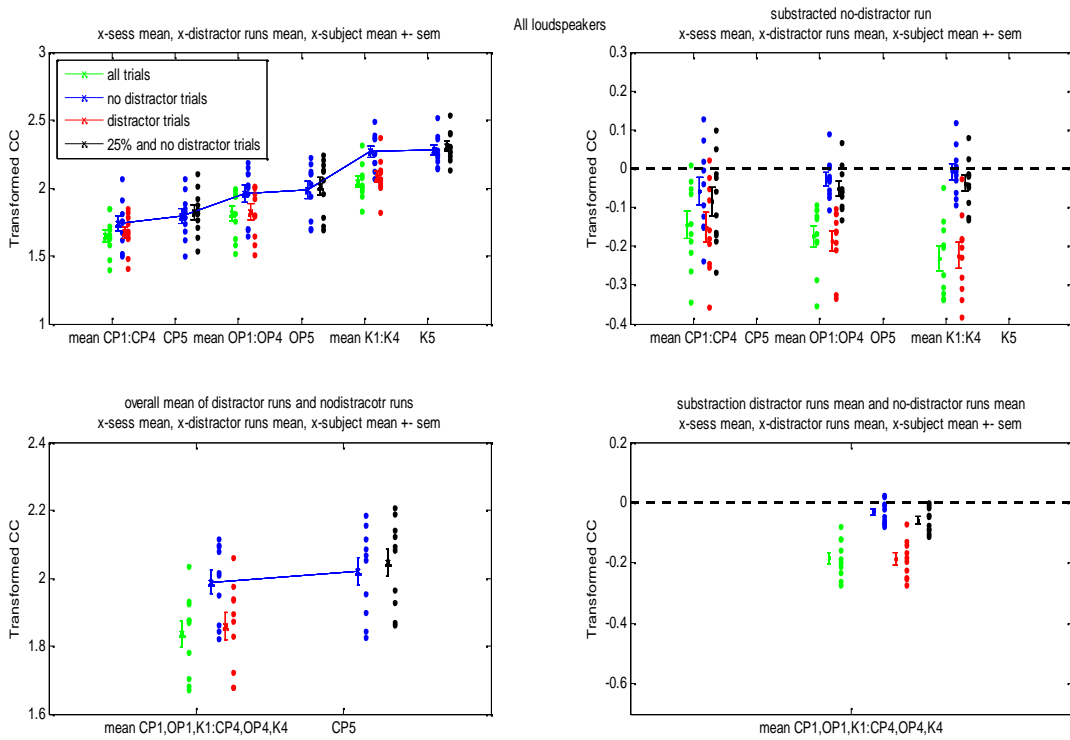


**Fig. 25 Temporal profile of responses: subtraction of distractor and no-distractor trials**

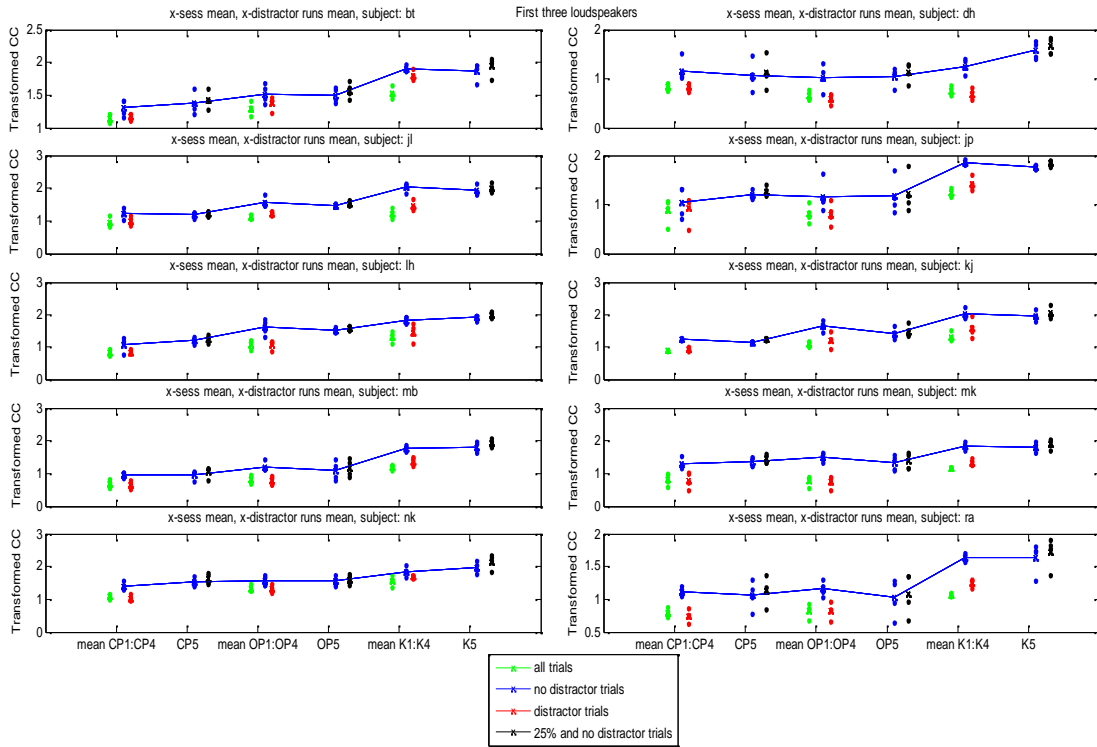
### 2.3 Correlation coefficients analysis



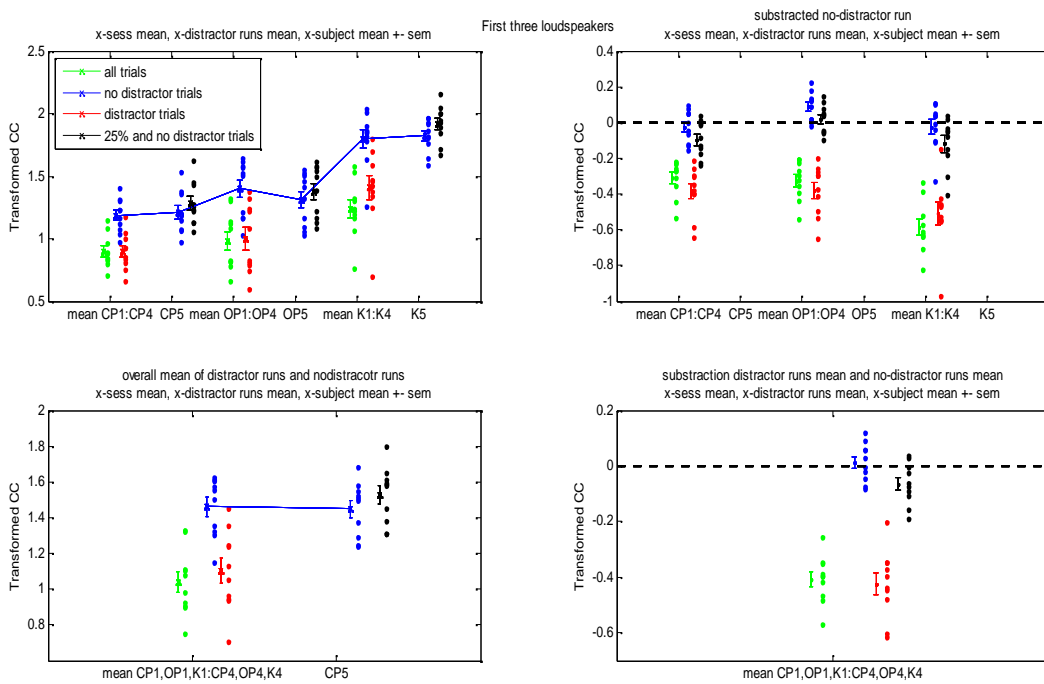
**Fig. 26 Analysis of correlation coefficients (Z-Fisher transformation), for single subject, all loudspeakers included, dots represent values in four sessions**



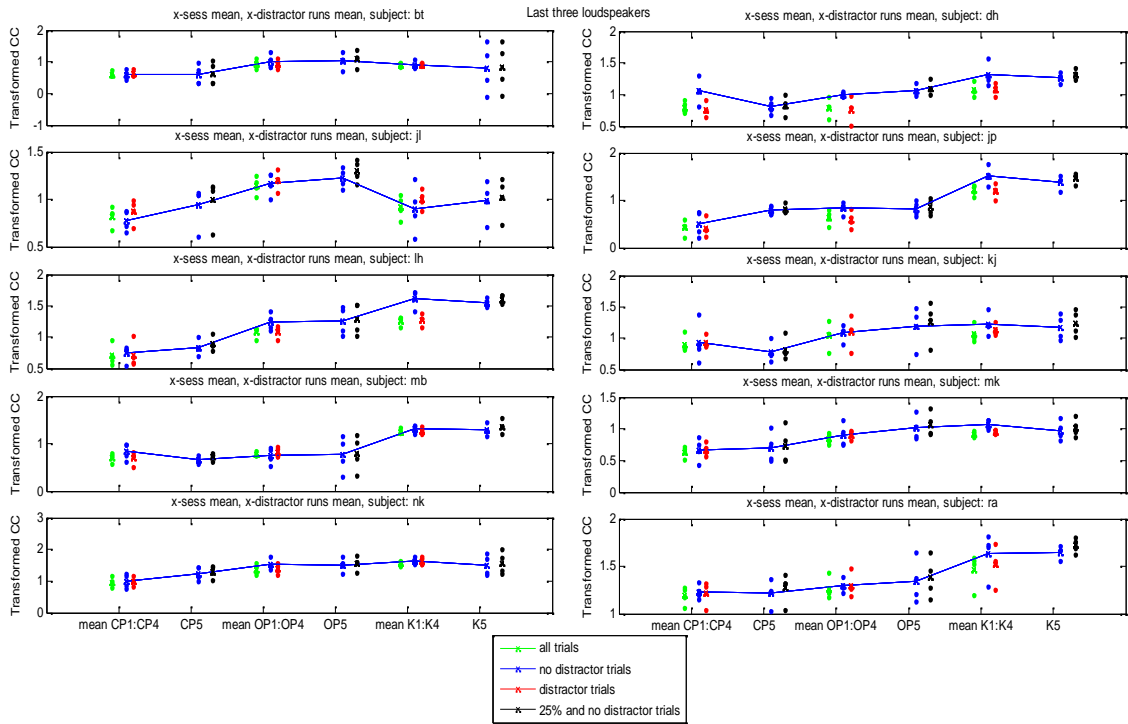
**Fig. 27 Analysis of correlation coefficients (Z-Fisher transformation), all loudspeakers included, dots represent subjects**



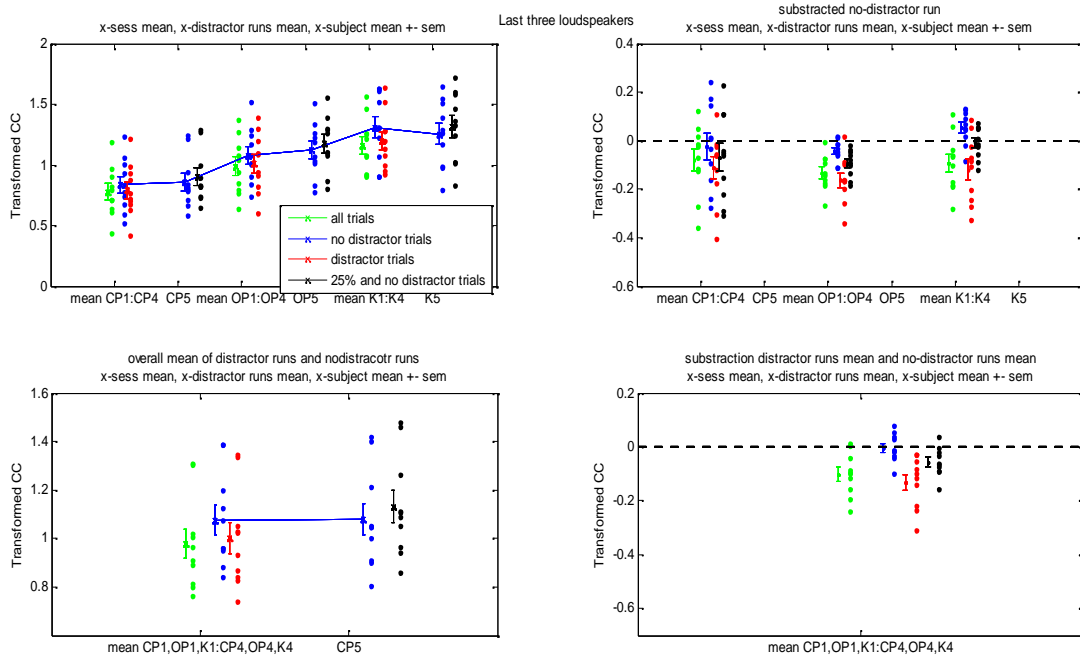
**Fig. 28 Analysis of correlation coefficients (Z-Fisher transformation), for single subject, first three loudspeakers included, dots represent values in four sessions**



**Fig. 29 Analysis of correlation coefficients (Z-Fisher transformation), first loudspeakers included, dots represent subjects**

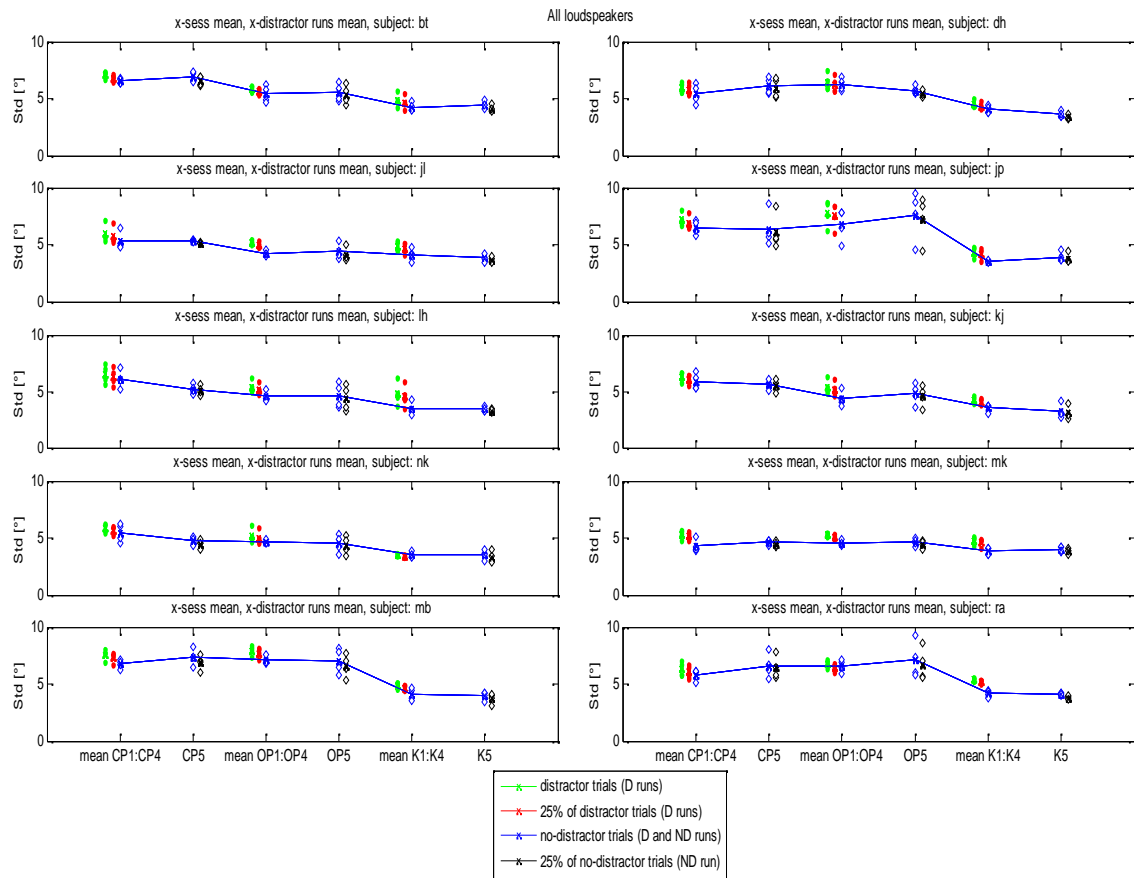


**Fig. 30** Analysis of correlation coefficients (Z-Fisher transformation) for single subject, last three loudspeakers included, dots represent values in four sessions

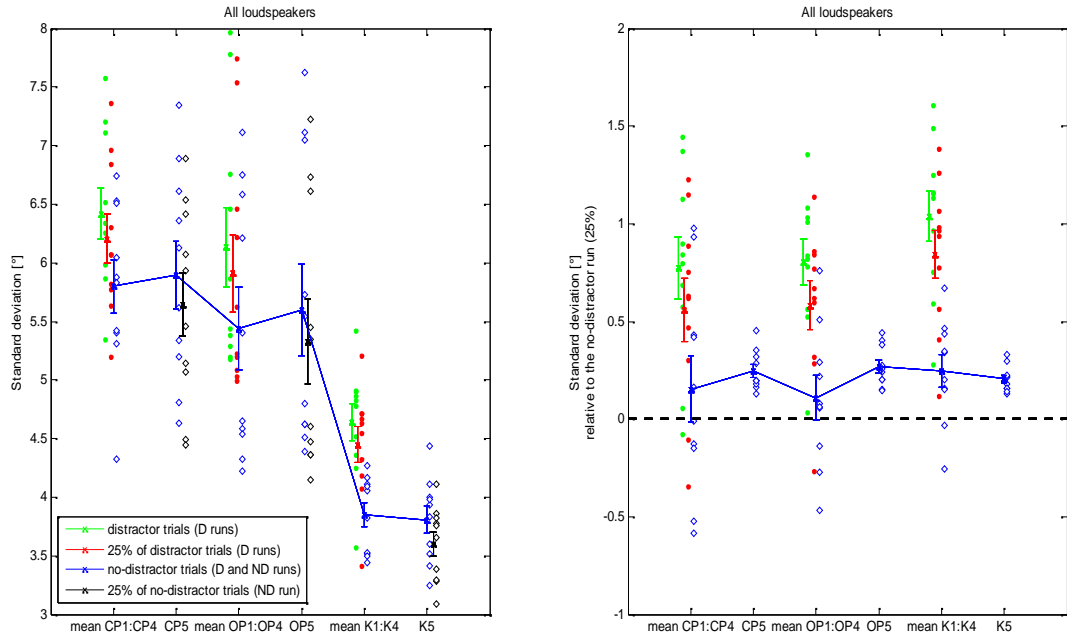


**Fig. 31** Analysis of correlation coefficients (Z-Fisher transformation), last loudspeakers included, dot represent subjects

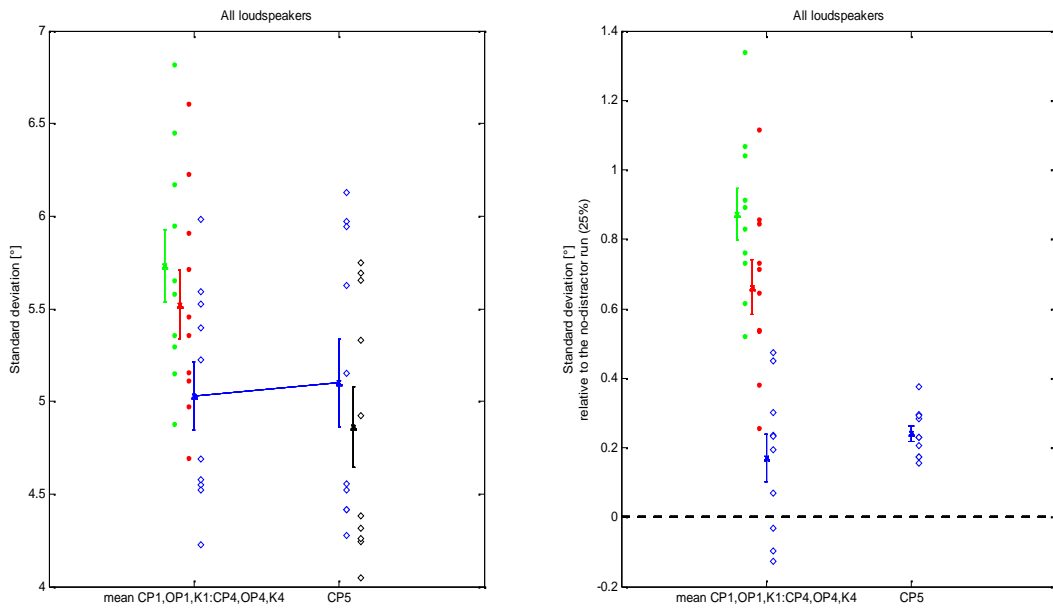
## 2.4 Standard deviations analysis



**Fig. 32** Standard deviation in different conditions, for single subjects, dots represent values in four sessions



**Fig. 33** Standard deviation in different conditions, dots represent single subjects



**Fig. 34** Standard deviation in different conditions, mean across all distractor runs, dots represent single subjects