

*Investigators: Caspar Goeke & Serena Planera*

Neurobiopsychologie  
Universität Osnabrück  
Albrechtstraße 28 49069 Osnabrück  
Phone.: (+49)-541 / 969-2245  
email: [splanera@uos.de](mailto:splanera@uos.de)

## Experiment Instructions

Thank you for agreeing to participate in today's experiment. You are about to participate in a multimodal-integration experiment. The experiment consists of three blocks (**A**, **B** and **C**). Each block takes almost the same time (45 minutes). The EEG preparation will take about 1.5 hours. Therefore, the whole experiment will last about four hours (included EEG preparation, etc.). Within each block you will have two short breaks. After each block you can have a break long as you wish. At the end of the sessions you will be paid in cash for your participation or you will receive 1–VP/hour.

In each block you will be sit comfortably on a chair placed on a rotating platform. Furthermore we will ask you to wear a sensory augmentation device (*fee/Space* belt), an eye-mask and a pair of headphones. Please find the most comfortable position before starting the experiment.

### **Block A**

In *block A* only the platform will rotate - clockwise or counter-clockwise - for two times subsequently with a delayed of time in between. After the second rotation appears, we ask you to judge which rotation was greater in degrees (which angle of rotation was bigger?). For giving your response you have just to press a button of the joystick you will keep in your hands. Namely, we ask you to press the LEFT button if you think the degrees of the first rotation were more than the second. We ask you to press the RIGHT button for the other way round (you judge the second rotation being bigger in degrees than the first). After you press the response button you can continue the experiment simply pushing the GREEN button (in the middle of the joystick). Take your time and continue the experiment when you are ready.

### **Block B**

In *block B* only the belt you are wearing will vibrate in a circular fashion shape - clockwise or counterclockwise - for two times subsequently with a delayed of time in between. After the second rotation appears, we ask you to judge which vibration was greater in degrees (which angle of vibration was bigger?). For giving your response you have just to press a button of the joystick you will keep in your hands. Namely, we ask you to press the LEFT button if you think the degrees of the first rotation

were more than the second. We ask you to press the RIGHT button for the other way round (you judge the second rotation being bigger in degrees than the first). After you press the response button you can continue the experiment simply pushing the GREEN button (in the middle of the joystick). Take your time and continue the experiment when you are ready.

### **Block C**

In *block C* both the platform and the belt will rotate and vibrate at the same time. The rotation and vibration will be of the same type of the Block A and B. Therefore they will rotate/vibrate - clockwise or counterclockwise - two times subsequently with a delayed of time in between. Afterwards we ask you to give your response with a button press (see *Block A* and *Block B* for details).

Please note that the sequence of the blocks will be randomly selected. We also ask you to move as least as possible during the trials, as the EEG is very sensitive to muscular movements. Please remember to turn off your cell phone. If you don't have any further questions, let's start!