

OPM-BCI study

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A collaboration of Charité – Universitätsmedizin Berlin and Physikalisch Technische Bundesanstalt

Participant data acquisition form

Age:

Sex:

Checklist for eligibility in the experiment (exclusion from the study if any of this is not fulfilled):

- ☐ Age ≥ 18 and < 60
- ☐ No previous neurological or psychological diseases
- ☐ No regular medication intake (oral contraceptives are not a problem)
- ☐ Good command of either English or German
- ☐ No metal parts on/in the body (also amalgam fillings, bra fasteners or glasses)
- ☐ Signature of an informed consent sheet (in the attachment, unfortunately only available in German). We can discuss this before the measurement

Please indicate your preferences in the use of hands in the following activities or objects:

	Value
Writing	
Throwing	
Toothbrush	
Spoon	
Total	

For each Item: Always left (-100), Usually left (-50), Both equally (0), Usually Right (50), Always Right (100)

Total/4 =

Classification: Left handers (-100 to -61), Mixed handers (-60 to 60), Right handers (61 to 100)

- ☐ right-handed:

Other Information to be acquired:

BCI Experience:

Experimental Notes:

[illegible]

Checklist:

- ☐ Write down setup of sensors in grid and configuration in chassis
- ☐ Participant consent form filled and signed
- ☐ Data acquisition form filled
- ☐ If applicable: Participant money form filled (Probandenquittung, digitally)
- ☐ Explain communication system, experimental paradigm and show short demo. Tell subject not to move much; short breaks between the blocks can be used to readjust sitting, cough or blink.
- ☐ Explain motor imagery and that imagery should be continued even when feedback is fully closed
- ☐ Tell subjects that sensors might warm up during experiment. Not to worry about, but communicate if is getting too warm. Communicate if feeling unwell
- ☐ Sensors restarted just before seating subject in shielded room
- ☐ Measure C3 location on head
- ☐ Apply grid to subject
- ☐ Take photo of subject with grid on head
- ☐ Check active shielding is turned on
- ☐ Field-zero sensors and start streaming → Tell subject not to move much
- ☐ Write down field-zeroing values (API?)
- ☐ Start Experiment
- ☐ Start recording
- ☐ Verify with subject that stimuli are going to begin → Verify that recording with all channels is running → Start stimuli
- ☐ Let experiment run through and allow break after each block

Experimental Notes (e.g., Broken sensors, etc.)

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Grid:

Charité:

1	2	3	4	5	6
7	8	9	10	11	12

PTB:

1	2	3	4	5	