**Instructions to use the EEG data in these data sets:**

The EEG data was evoked in response to continuous white noise amplitude modulated at 16 Hz, 23.5 Hz, 32.5 Hz and 40 Hz in pairs as explained in the manuscript. The data provided here is raw and contains following codes, which will help the reader to reanalyze according to the procedure mentioned in the paper or in a different self-constructed way. The codes are onset triggers, which appeared in the data at the same time when the stimuli were presented to the participant.

|  |  |  |
| --- | --- | --- |
| **Code** | **The recording condition** | **Cue (ear to be attended)** |
| 21 | 23.5 Hz attended and 16 Hz Unattended | Right ear |
| 22 | 16 Hz attended and 23.5 Hz Unattended | Right ear |
| 23 | 23.5 Hz attended and 16 Hz Unattended | Left ear |
| 24 | 16 Hz attended and 23.5 Hz Unattended | Left ear |
| 41 | 40 Hz attended and 32.5 Hz Unattended | Right ear |
| 42 | 32.5 Hz attended and 40 Hz Unattended | Right ear |
| 43 | 40 Hz attended and 32.5 Hz Unattended | Left ear |
| 44 | 32.5 Hz attended and 40 Hz Unattended | Left ear |

In the whole dataset, the 48 trials were analyzed for the effects mentioned in the paper. Rest 24 were catch trials which required participants response witch each button press also sending a trigger to the recording namely ‘99’.