

Figure 6: Analysis on MEG data

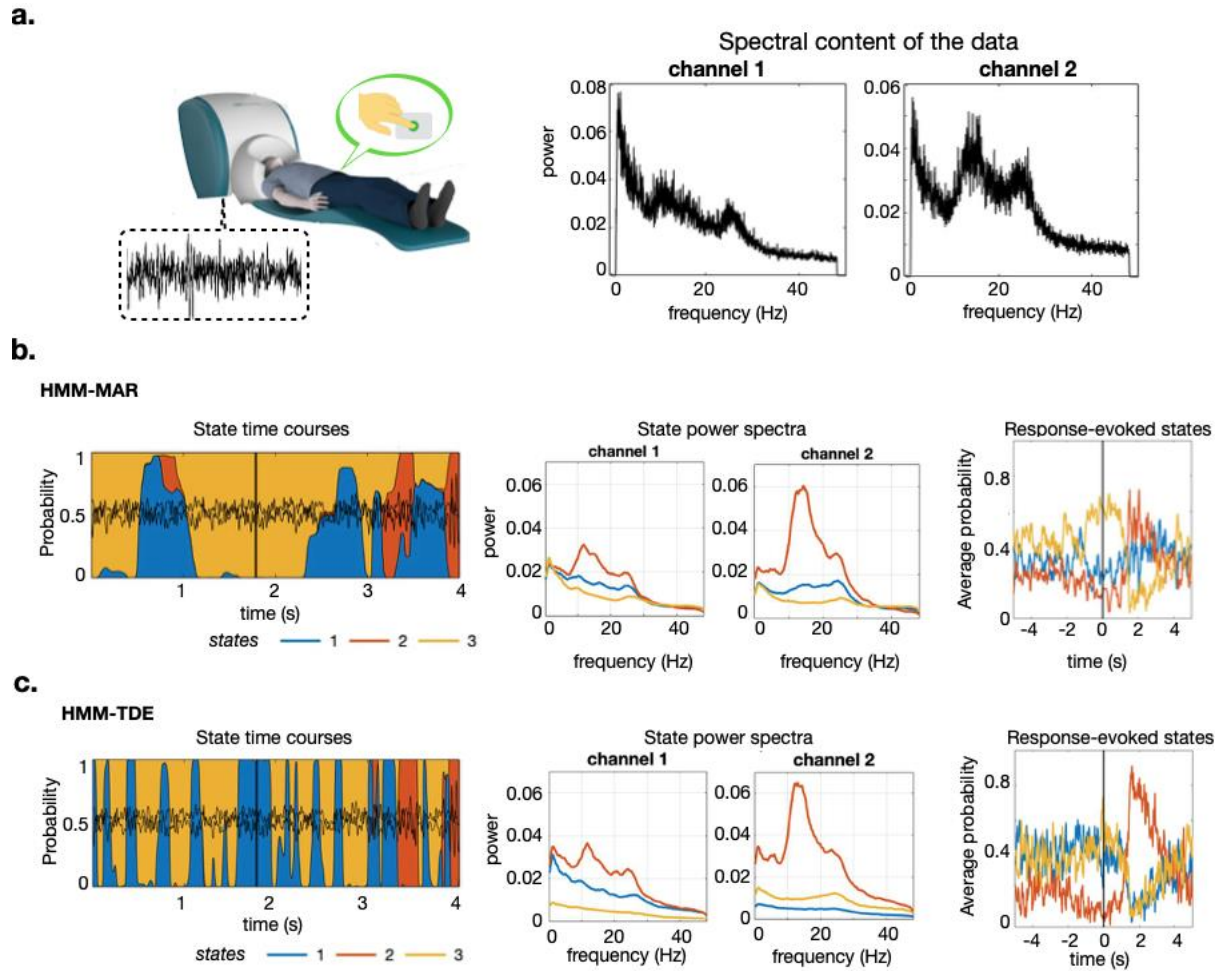


Figure 6. a. The data for this analysis are 2 MEG channels from the motor cortex of 8 (human) subjects who performed a simple finger tapping task. Data were downsampled to 200 Hz and band-filtered between 1 and 48 Hz. The spectral content of the two channels is also shown. **b.** Example of HMM-MAR state time courses, around a button press, marked by a black vertical line (left); the corresponding state power spectra (middle); and the probability of states around the button press (response-evoked state probability, rightmost panel). **c.** Same as in **b.**, for the HMM-TDE model. The models are trained on 20 mins of recordings with three states. For the HMM-MAR we used order $P=3$, and for the HMM-TDE we used $L=1$, with $S=1$; $\delta=100000$ in both cases.