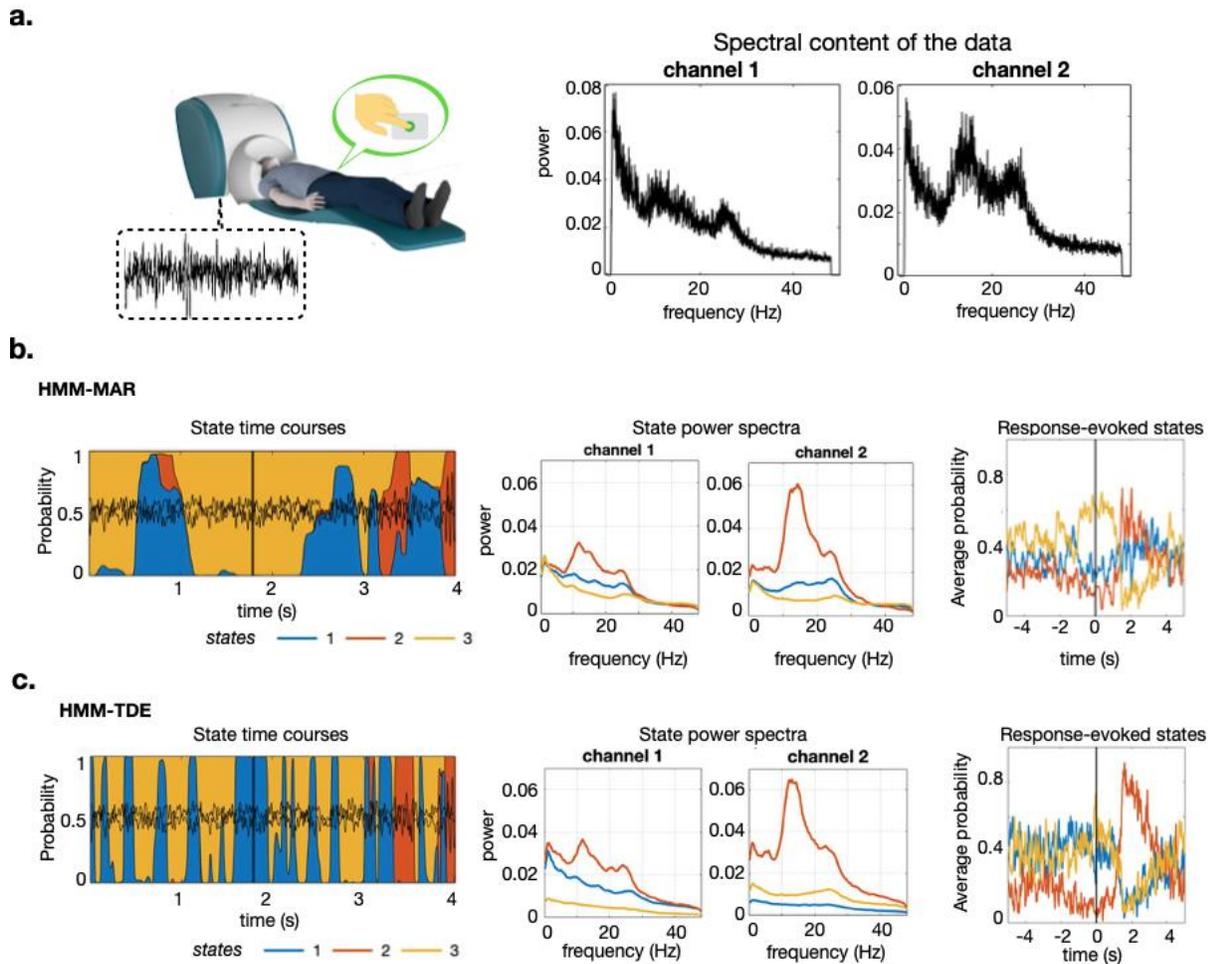


**Figure 6:** Analysis on MEG data



**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.