

Figure 5: Analysis on LFP data

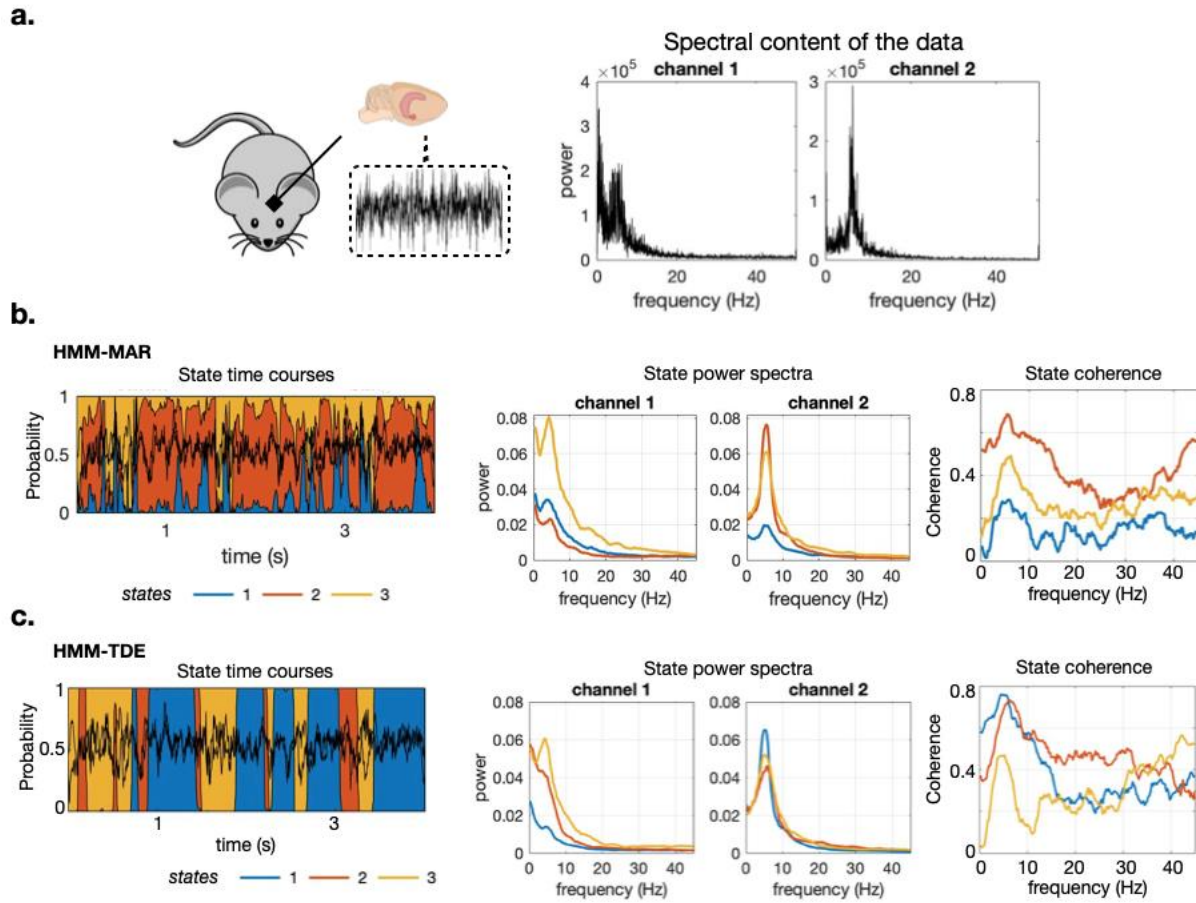


Figure 5. **a.** LFP data, with two LFP channels (chosen such that their activity was not very correlated) from the hippocampus of a mouse during resting state, downsampled to 250 Hz and the spectral content of the two channels. **b.** Example of HMM-MAR state time courses, as well as the state power spectra and the state coherence. **c.** Similar to **b.**, for HMM-TDE. The models are trained on 30 mins of data with three states (here, HMM-MAR order $P=5$, HMM-TDE, lags $L=15$, $S=3$, $\delta=100k$).