Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: TW example and regression model. LFP waveform traces for a 1- second segment of the filtered 13.8 Hz oscillation example in Fig. 1 are shown at top. Vertical line marks timepoint of instantaneous analytics on bottom panels, including phase and amplitude in the bottom-left. Bottom right panel displays plane wave regression model (x and y axes: orthogonal anatomic dimensions, z-axis: phase). The plane model (colored grid) corresponds to the TW model-predicted phases (opacity: R²), whereas actual phase values and residuals are the black dots and lines respectively. Calculated TW direction shown as an arrow (opacity: R²) at center, with R2 value as length of blue bar below. An antero-inferior traveling oscillation route is observed first, followed by a flat null model indicating poor overall directionality across the grid, and then a reemergence of the TW now coursing in a supero-posterior route. Frame rate is at 512 Hz sampling frequency (1.95 ms between frames).