(1) SpikeSort(data\_directory)

This assumes that your data directory has data-containing subdirectories with their associated “task” (e.g., RL, sleep, track, etc.) included in the directory name (just after the IM number). Your save directory will have the following subdirectories: “filtered”, “LFP”, “sorted-raw” The “filtered” and “LFP” are further subdivided by task; “filtered” has wavelet-filtered data for each tetrode and “LFP” has downsampled and low-pass filtered data for each tetrode. The “sorted” directory has .mat files containing (1) the data structure “spkDat” and (2) and “trodeFile” a cell array contained the data files used.

(2) postsort clean.m

(3) basic report.m

(4) sleep analysis

(5) analyze behavior.m

(6) RL report – rate.m

(7) RL report – SFC.m

(8) RL report – burst

(9) RL report – interactions (cross corr, spike-spike coh, JPSTH), flavors of trajectory analysis

(10) Tensor analysis