Session structure

Offline period à 20 trials (~5 mins) à offline period à repeat until 100 trials

Behavior data : Behavior_Camera_Stim_Struct.mat

FastCamPulses – irrelevant

GoStamps – timestamp when each trial start

HitStamps – timestamp where the mouse crossed the threshold (succ trials)

LaserOff – when the laser was turned off during opto-tagging

LaserOn - when the laser was turned on during opto-tagging

LeverPosition – positions of lever as a function of time (2D - time x pos)

LickOff - when the lick sensor is deactivated

LickOn – when the lick sensor is activated

NoGoStamps - v

OfflineEndStamps – end of offline in between trial blocks

- Can use this and the next to parse the session recording to offline vs training

OfflineStartStamps – start of offline in between trial blocks

PupilArea – are of the pupil through time

ResponseEndStamps – end of trial (tone duration)

- Can be used to parse training block into trials

SlowCamPulses - irrelevant

SyncImec – pulses sent by the neural recording system

- for interpolation (30 khz)

SyncNidq – pulses sent by the system controlling everything else (video, rotary encoder etc.)

- (maybe 30 khz)

Neural data: tagged_unit_ids.mat

channelID – channel identity of the spike detected at that time point

cortical_good – Units that have been selected as ‘real’ after curating data

spikeTimes – time at which spikes were detected

tagged_unitids – unit id of the units that met the criterion to be considered ‘tagged’

untagged_unitids – unit id of units that were not tagged