**State Matrix for Whisker Stimulation**

1. Start
2. Check State
3. Decide Trial type ie. Go or NoGo (could be a tone)
4. Start Timer (ex. For withholding a lick before start of stimulation)

If no lick goes to State 6

1. If Lick… “early detect” state
2. Hold State

If lick again, go back to 4 and repeat until no lick in early detect

1. Tone
2. Piezo Stimulation
3. Response Window
4. If lick on Go trial, give water… or not
5. Drink time
6. Hold
   1. Inter-trial Interval is time between 11 and 0. Doesn’t count licks here