For get the dwell time

1. Import the vbFRET output file **(pathData)** to matlab
2. Use ‘**getDwell**’ to get the dwell time: **dwellData = getDwell(pathData)**
3. Purify **dwellData** with ‘**purifyDwell**’ to exclude transitions smaller than certain threshold (**signif\_trans**), I usually set it to be 0.1. **dwellData\_s = purifyDwell(dwellData, signif\_trans)**
4. This is optional: Remove single or double frame events with ‘**dwellData\_J**’ : **dwellData\_j1 = purifyDwell\_J(dwellData\_s, frame), frame** is the number of frame you want to delete.
5. This is also optional: Remove the first event of each trace: **dwellData\_3 = purifyDwell\_3(dwellData\_s)**
6. transition density plot: **plotTDP(dwelltime\_s, res)** **res** default: 24

For postsync plot:

**plotTimeFRET\_ps(cy3x, cy5x, FRETbins, Tbinsize, cutoffT);**

where cy3x and **cy5x** are the baseline corrected intensity traces of the fluorophores for FRET, **FRETbins** are the number of bins in the FRET dimension (default: 24), **Tbinsize** is the number of datapoints in time averaged over (default: 2) and **cutoffT** is the cutoff in the time dimension (in seconds, default: 3). If the argument cutoffT is left out, no cutoff will be applied.