Stable FP single molecule simulations on mEos3.2, assumed to be immobilized with SpyTag/SpyCatcher

Simulations made as a tool to assess the capability of processing pipelines to extract accurate photophysical parameters.

Raw data in: Z:\DOMINIQUE\SMIS\SIMULATIONS\STABLE_FP_FEBRUARY_2023

Common parameters:

- ⇨ **Data sets : 30,000 frames (but only 5000 frames on Resana for size considerations …)**
- ⇨ **pixel size: 130 nm**
- ⇨ **frame time: 50 ms**
- ⇨ **561 nm laser: 500 W/cm² at center, Gaussian beam**
- ⇨ **Background: 100, very slowly decaying**
- ⇨ **EMCCD gain: 200**

Simulations 1&2: discard

Simulation 3: **medium density**

10000 molecules, 405 nm laser: 10 W/cm²

Simulation 4: **high density**

50000 molecules, 405 nm laser: 2W/cm²

Simulation 5: **low density**

2000 molecules, 405 nm laser: 10 W/cm²