

Internal Webinar

Multi-Color Single Molecule Localization Microscopy: Design and Implementation

Gayatri P Chandran

TIFR, Hyderabad

Conventional optical microscopes have limited spatial resolution due to diffraction of light. Features closer than ~200nm cannot be resolved by lens-based light microscopes. In recent years, several super-resolution imaging methods have been developed that break this diffraction barrier. Single-molecule-localization methods include photoactivated localization microscopy (PALM), stochastic optical reconstruction microscopy (STORM) and some variations of these methods.

In this talk, I will present my progress towards implementing 3D multi-color Stochastic Optical Reconstruction Microscopy (STORM) with focus on some practical aspects of multi-color imaging.

Tuesday, Aug 18th 2020

2:30 PM