

Internal Seminar

System Design and Instrumentation for Single-Molecule-Localization Microscopy

Gayatri Pushpita Chandran

TIFR-Hyderabad

Conventional optical microscopes have limited spatial resolution due to diffraction of light. Features closer than $\sim 200\text{nm}$ cannot be resolved by lens-based light microscopes. In recent years, several super-resolution imaging methods have been developed that break this diffraction barrier. Some of these techniques rely on the detection and precise localization of single molecules. In this talk, I will present my progress towards implementing single-molecule-localization microscopy and discuss instrumentation and design considerations for multicolor imaging.

Thursday, Aug 1st 2019

2:30 PM (Tea/Coffee at 2:00 PM)

Seminar Hall, TIFR-H