IUPUI Department of Physics Presents:

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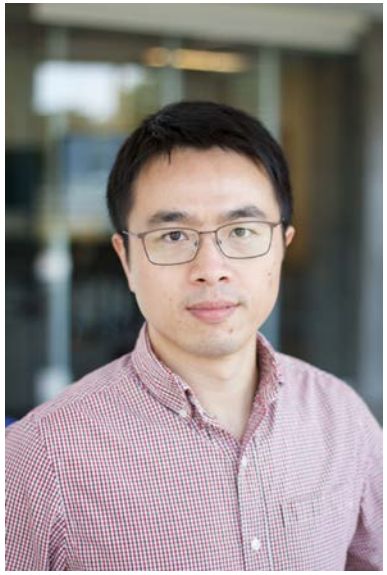
Quantitative Single Molecule Microscopy and Spectroscopy



Thursday,
September 21, 2017*
3:30pm,
LD 010
402 N. Blackford Street

Refreshments at 3:00 pm in the Physics Conference Room LD 154B
For additional information call 274-6900

Abstract*:*

With the development of state-of-art optical microscopes and imaging systems, more and more fine structures of biological environments have inaccessible by conventional optical microscopy, furthermore validates the tracking of dynamic biological activities at a single molecule level. This talk will give a comprehensive description about the single molecule imaging and spectroscopy, including super resolution imaging, single been disclosed to researchers. Detecting, visualizing, and localizing single molecules not only enables super resolution imaging of biological targets molecule tracking, optical tweezer, fluorescence fluctuation spectroscopy, and Froster energy transfer, etc. The primary focus of the talk is to illustrate the power of optical and imaging methodology on critical biological challenges.

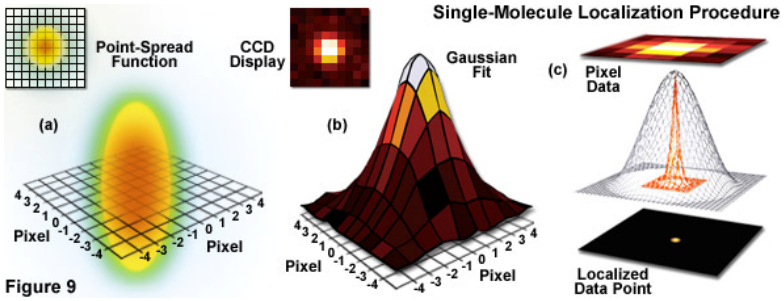


Figure 9

*Physics colloquium is scheduled for 2016-17 academic year for every Thursday, 3:30 PM in LD 010. Changes to the schedule will be posted at www.physics.iupui.edu