

# **Colloquium**

## **Uses of Light: From Retinal Scans to Protein Dynamics**

**Ramkrishna Adhikary**

**The Scripps Research Institute, CA**

Optical spectroscopy has been an important scientific tool for both fundamental and applied research. I will discuss application of fluorescence spectroscopy from disease diagnosis to excited-state kinetics. In addition, I will demonstrate how infrared spectroscopy is used to site-specifically interrogate proteins and how nonlinear laser spectroscopy is employed to characterize the evolution of molecular recognition in the context of how antibodies are evolved to fight infections.

***Thursday, Jan 11<sup>th</sup> 2018***

***4:00 PM (Tea/Coffee at 3:30 PM)***

***Auditorium, TIFR-H***