



INDIAN  
INSTITUTE OF  
TECHNOLOGY  
(BANARAS HINDU UNIVERSITY)  
VARANASI

**SPIE. STUDENT CHAPTER**  
INDIAN INSTITUTE OF  
TECHNOLOGY  
BANARAS HINDU UNIV

**OPTICA** Formerly  
**OSA**  
Advancing Optics and Photonics Worldwide  
IIT (BHU) OPTICA Student Chapter

# Seeing the unseen

Nanoimaging with visible light



Talk by:

**Prof. Prabhat Verma**

Professor of Applied Physics  
The University of Osaka, Japan  
verma@ap.eng.osaka-u.ac.jp

**Prof. Prabhat Verma** will discuss how nanoimaging beyond the **diffraction limit** can be achieved in **SERS** and **TERS** using plasmonic enhancement with visible light. He will explain how technique improvements lead to higher spatial resolution, enabling the visualization of chemical and structural information on the nanoscale with **visible light**. An alternative approach called **plasmon nanofocusing** will also be introduced, exploring new possibilities for multi-wavelength nanoimaging and nanosensing.

## Event Details

 **Date:** 10 March 2026

 **Time:** 05:00 PM – 06:30 PM

 **Venue:** Hall 2D, Dev & Vardhana Goswami  
Lecture Hall Complex

**ALL ARE CORDIALLY INVITED**



JOIN  
ONLINE



JOIN  
OFF-LINE

**Co-ordinator:**

*Student Chapters  
Advisor-*

*Professor  
Rakesh Kumar Singh,  
Department of physics,  
IIT (BHU)*