

Joint Symposium between IIT (BHU) and Niigata University

Date: 17-18 November 2025

Venue: Indian Institute of Technology (BHU) Varanasi

Coordinator: Prof. Rakesh Kumar Singh from the Department of Physics, IIT (BHU)

& Prof. Akira Baba, Graduate School of Science and Technology and Faculty of Engineering, Niigata University



Tentative Schedule-at-a-Glance:

Time	Day Wise Schedule
Day 1: Monday, 17th November 2025	
10:00-10:15	Inauguration
10:15-10:30	Message from IIT (BHU) Side
10:30-10:45	Message from Niigata University
10:45-11:00	Discussion on our existing MoU with Niigata University and Achievements
Session-I (11:00-13:30)	
11:00-11:20	Talk by Dr. Yusuke Lida “Behavior of Deep Learning Models to Data Noise from Early Phase to Deep Double Descent”
11:20-11:40	Talk by Prof. Akira Baba “Surface Plasmon Enhanced Photovoltaic Devices and Biosensors”
11:40-12:00	Talk by a Representative from IIT (BHU)
12:00-12:20	Talk by a Representative from IIT (BHU)
12:20-13:30	Lunch
Session-II (13:30-15:00)	
13:30-13:50	Talk by Dr. Sachiko Jonai “Eco-friendly organic solar cell employing lignin as the active layer”
13:50-14:20	Talk by Prof. Masayuki Yagi “Efficient Solar Water Splitting by a Photovoltaic Device combined with an Electrolyzer Fabricated via Mixed Metal Imidazole-Complexes”
14:20-14:40	Talk by a Representative from IIT (BHU)

14:40-15:00	Talk by a Representative from IIT (BHU)
Day 2: Tuesday, 18th November 2025	
Session-III (10:00-13:00)	
10:00-10:20	Talk by Dr. Debraj Chandra “Designed Nanoarchitectures of WO ₃ Photoanodes for High-Performance Solar-Driven Water Oxidation”
10:20-10:40	Talk by Dr. Mizuki Watanabe “Designed “Site assignment of luminescence ions in phosphors by molecular dynamics simulation”
10:40-11:00	Talk by a Representative from IIT (BHU)
11:00-11:20	Talk by a Representative from IIT (BHU)
11:20-11:40	Talk by Dr. Tomohiko Hayashi “Statistical thermodynamics on the biomolecular recognition, and its application to the drug-development research”
11:40-12:00	Talk by Dr. Jun Yu “From Adversarial Attacks to Robust Defenses: Advancing Safety in Deep Learning”
12:20-12:40	Talk by a Representative from IIT (BHU)
12:40-13:00	Concluding Session
Visit to Labs and interaction:	