

**Oral Presentation**  
**18/11/2025 (Session A) (03.15 PM- 04.15 PM)**

Sl. No	Name	Paper ID	Title of the Abstract	Institution	Mode of Presentation
1	Anita Tamang	OP-01	Studies on the Real and Imaginary Parts of the Optical Model Potential Induced by Loosely Bound Stable Nuclei.	Gauhati University	Oral
2	Gyati Gyuth	OP-02	Numerical convergence of Mellin moments using Chebyshev Polynomial in PDF analysis	North Eastern Regional Institute of Science and Technology	Oral
3	Chandan Kumar Borah	OP-03	Renormalization group evolution induced breaking of $\mu - \tau$ reflection symmetry in MSSM with effects of variation of $\tan\beta$	Dibrugarh University	Oral
4	Pritom Kumar Nath	OP-04	Mass Spectra of Heavy Flavoured Meson Properties Through the Killingbeck Potential Approach	Tezpur University	Oral
5	Shyamalee Bora	OP-05	Study of Thermodynamic Stability of Hayward-AdS Black Hole Modified by a Fluid of Strings	Tezpur University	Oral

**Oral Presentation**  
**18/11/2025 (Session B) (03.15 PM- 04.15 PM)**

6	Dipankar Ray	OP-06	Jeans Instability Simulation in Dusty Plasmas with Kappa-distributed Electrons and Ions	Tezpur University	Oral
7	MD HASNAIN	OP-07	Density Functional Investigation of Structural, Electronic and Mechanical Properties of Sb <sub>2</sub> Se <sub>3</sub> compound	ASSAM UNIVERSITY SILCHAR	Oral
8	Taniya Monjari Sonowal	OP-08	Studies on the Quasi-elastic excitation function and barrier distribution for <sup>16,18</sup> O+ <sup>92</sup> Mo	Gauhati University	Oral
9	Rishan Dev Choudhury	OP-09	Probing Heavy Meson Structure with a Three-Loop Corrected Variational Potential	Tezpur University	Oral
10	Unnati Bora	OP-10	Tailoring the role of V <sub>2</sub> O <sub>5</sub> /SrTiO <sub>3</sub> composites for Efficient Electrochemical Oxygen Evolution Reaction in an alkaline medium	CSIR-North East Institute of Science and Technology, Jorhat, Assam	Oral

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**19/11/2025 (Session A) (03.00 PM-04.00 PM)**

11	MANASH DEY	OP-11	Seesaw Interplay with Partial $\mu$ - $\tau$ Symmetry.	Gauhati University	Oral
12	Vivek Shrivastav	OP-12	Suppression of Two-Stream and Weibel Instabilities in Ultra-relativistic Electron-Positron Plasma	Sikkim University	Oral
13	Mani K Chettri	OP-13	Turbulent signatures of Kinetic Alfven waves in the Earth's plasma sheet boundary layers	Sikkim University	Oral
14	Nabajit Kalita	OP-14	Light Curve and Periodicity Analysis of 17 Classical Be Stars mined from ASAS- SN	Gauhati University	Oral
15	Khileswar Chandi	OP-15	Stellar and black hole activity in self- similar models of galaxy formation	Rajiv Gandhi University	Oral

**Oral Presentation**  
**19/11/2025 (Session B) (03.00 PM-04.00 PM)**

16	Narendra Lakra	OP-16	A simple and cost-effective method to detect malathion pesticide by using Au-CuO-rGO nanocomposite-based sensor	Assam Don Bosco University Tapesia Campus	Oral
17	Bandita Deka	OP-17	Analog Implementation of the FitzHugh-Nagumo Neuron and Study of its dependency on circuit parameters	Gauhati University	Oral
18	Manash Pratim Sarma	OP-18	YBCO Nanocomposite prepared by PVA assisted sol-gel technique and its Characterization	Gauhati University	Oral
19	Dr. Sorokhaibam Nilakash Singh	OP-19	ETH-monotonicity in two-dimensional systems	Tezpur University	Oral
20	Prokash Pegu	OP-20	Predictions of effective Majorana neutrino mass under radiative corrections to $\mu$ - $\tau$ reflection symmetry	Dibrugarh University	Oral

**Oral Presentation**  
**19/11/2025 (Session A) (04.15 PM-05.15 PM)**

21	Britan Singh	OP-21	Data-Driven Discovery of Governing equations of a Dynamical System	Sikkim University	Oral
22	Gourab Pathak	OP-22	Froggatt-Nielsen like mechanism in inverse seesaw using modular symmetry	Tezpur University	Oral
23	Dr. Pulak Talukdar	OP-23	Effective Field Theory Analysis of Two-Photon Exchange Process	S. B. DEORAH COLLEGE, GUWAHATI	Oral
24	Dr. DIPAK MAZUMDAR	OP-24	Giant magnetoresistance and magnetic phase competition from A-site disorder in Manganites	Arya Vidyapeeth College (Autonomous)	Oral
25	Dr. Jyotirmoy Deb	OP-25	Integrating Machine Learning with First-Principles Calculations for Reliable Band Gap Prediction in Lead-Free Double Perovskite Oxides	CSIR – North East Institute Of Science And Technology (NEIST)	Oral

**Oral Presentation**  
**19/11/2025 (Session B) (04.15 PM-05.15 PM)**

26	Dr. Davidson Pyngrope	OP-26	Enhanced Green Emission in Li <sup>+</sup> and Bi <sup>3+</sup> Sensitized Y <sub>2</sub> O <sub>3</sub> :Tb <sup>3+</sup> Nanophosphors Synthesized via Polyol Route	North-Eastern Hill University	Oral
27	KANGKAN MEDHI	OP-27	Simulation and Validation of multi-notch transfer function in indoor power line channel via LC circuit modelling using reported cable properties	GAUHATI UNIVERSITY	Oral
28	Lucy N. Ngullie	OP-28	Synthesis of Green Bismuth ferrite: Characterization and Their application in electrochemical detection of Cd <sup>2+</sup> from aquatic environment	St. Joseph University	Oral
29	Rahul Dey	OP-29	Preliminary Characterization of Black Turmeric (Curcuma Caesia) in the form of Polymer Matrix	The Assam Royal Global University, Guwahati	Oral
30	HARUN AL RASHID	OP-30	Investigation of Transfer Reactions in the 10,11B + 40Ca Systems at 50 MeV	Baosi Banikanta Kakati College, Nagaon	Oral

**Oral Presentation**  
**20/11/2025 (Session A) (11.55 PM-12.45 PM)**

31	RAM RYNGKHLE M	OP-31	Novel production of high yield biodiesel using nanocatalyst from edible oil	NORTH EASTERN HILLS UNIVERSITY	Oral
32	Cheseng Matgrik R Marak	OP-32	Synthesis of Rare-Earth Doped Xenotime-Phase-Rich YPO <sub>4</sub> :Eu <sup>3+</sup> Nanoparticles for Charge-Transfer-Driven Enhanced Photoluminescence	NORTH- EASTERN HILL UNIVERSITY, SHILLONG	Oral
33	Ranjoy Wangkhem	OP-33	pH dependent sensing of Fe <sup>3+</sup> /Fe <sup>2+</sup> ions with green emitting CaMoO <sub>4</sub> :Tb <sup>3+</sup> nanoparticles and its application in anti-counterfeit security ink	National Institute of Technology Manipur	Oral
34	Pewe-u Marhu	OP-34	High-Performance All-Solid-State Supercapacitor using Molybdenum Diselenide and Cobalt doped Molybdenum diselenide for Enhanced Electrochemical Performance	NAGALAND UNIVERSITY	Oral
35	Oinam Henasurkishor e Singh	OP-35	Energy Transfer Dynamics in Ce <sup>3+</sup> -Sensitized BaF <sub>2</sub> :Tb <sup>3+</sup> Nanophosphors and Their Multifunctional Applications	Manipur University	Oral

**Oral Presentation**  
**20/11/2025 (Session B) (11.55 PM-12.45 PM)**

36	Parashmani Thakuria	OP-36	Study of twist-3 GPD of light sea quarks in proton	Tezpur University	Oral
37	Sonali Borah	OP-37	Testing Holographic Dark Energy Models with Current Cosmological Probes: DESI DR2, CC, and Supernovae	ASSAM UNIVERSITY	Oral
38	Angunuo Khieya	OP-38	Molecular and Quantum-Level Assessment of Naturally Occurring Organohalogens Using In-Silico and DFT Based Approach	Nagaland University	Oral
39	Soma Majumder	OP-39	Electrochemical Evaluation of MXene Nanostructures for High-Performance Supercapacitors	Nagaland University	Oral
40	Watisenla Sangtam	OP-40	Interplay between VO <sub>4</sub> <sup>3-</sup> emission and MMCT in Bi <sup>3+</sup> doped YP <sub>x</sub> V <sub>1-x</sub> O <sub>4</sub>	Nagaland University	Oral