



# National Workshop on Recent Advances in Quantum Dynamics, Nuclear and Astrophysics



## About

The seminar emphasises the interconnections and significant overlaps between quantum, nuclear physics and various other disciplines, including astrophysics, particle physics, many-body systems physics, and experimental status. A key tradition is striking a balance between the scientific agenda and social engagement. Notable social activities are considered the hallmark of the meetings, focusing on both the traditional progress in research and the present landscape of these fields.



**Date:** 16 – 17<sup>th</sup> February 2026

**Venue:** Institute of Physics  
Bhubaneswar, India

### Convener and Chairman

Dr. Mrutunjaya Bhuyan  
Prof. Pradip Kumar Sahu

### Patron

Prof. K. K. Nanda,  
Director, IOP

**Registration and Participation:**  
**By Invitation**

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### Topics:

- Fundamental processes at the intersection of quantum, nuclear and particle physics.
- Weak interactions and nucleosynthesis in astrophysical systems.
- Nuclear structure, Nuclear Heavy-Ion Physics, Isospin, and Angular momentum.
- Nuclear astrophysics, understanding the evolution of the early universe
- Neutron Stars, Quarkyonic Matter, Dark Matter, and Binary astrophysical systems.
- Quark, Top Quark, lepton flavour, EW and Higgs physics