

Two-Day Workshop on

# Ion-trap and cold atom-based quantum simulations and quantum metrology

16<sup>th</sup> & 17<sup>th</sup> December 2024  
C V Raman Hall, IACS

## Topics

- Trapped Ion Quantum Simulation
- Ion-atom Hybrid Quantum System
- Quantum Clocks
- Quantum Algorithm for Lattice Gauge Theories
- Many-body Quantum Scars with Rydberg Atoms
- Skyrmion in spinor BEC

## Organizing Committee

Arnab Das (IACS)  
Bimalendu Deb (IACS)  
Nabanita Deb (IACS)  
Subhadeep De (IUCAA)