



Module PMRF-ISSS017/2025

## Problem solving in Quantum Mechanics

### Name of the PMRF student

Amartya Saha

### Required background of the students taught

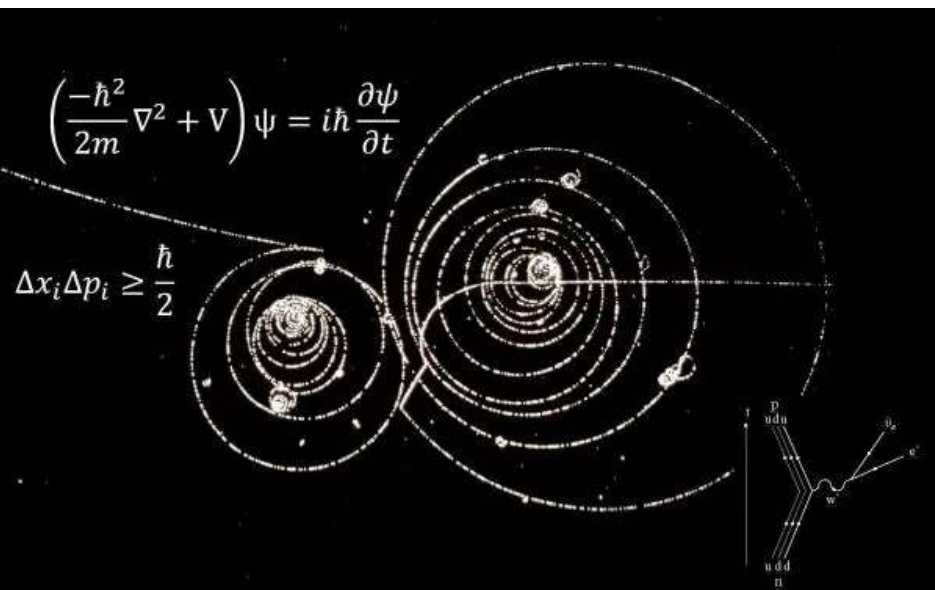
- M.Sc. or advanced B.Sc. in Physics
- Ideal for NET, GATE, JEST preparation

### Details of the content of the module

Welcome to the quantum mechanics problem solving sessions! Below is a tentative list of concepts on which problems will be discussed:

1. Wave mechanics
2. Matrix mechanics
3. Quantum dynamics
4. Angular momentum
5. Measurements and observables
6. Perturbation theory
7. Scattering theory
8. Identical particles

Through problem-solving, you will gain a thorough understanding of the said concepts.



### Schedule of the module

Timing: Recorded lectures will be uploaded every Tu, W, Th, Sa and Su, 8 pm

Lecture duration: 2 hr

Start date: Feb 19, 2025

Total number of lectures: 25

Meeting link : Will be shared later

Contact email ID: [amartyas@iitk.ac.in](mailto:amartyas@iitk.ac.in)

Registration link:  
<https://forms.gle/u8SRuJuttpYCV43T7>