



Science Academies' Refresher Course in Quantum Mechanics

at

Post Graduate and Research Department of Physics,
Government Arts College, Melur, Madurai, Tamil Nadu
8–20 February 2016

Sponsored by

Indian Academy of Sciences, Bengaluru
Indian National Science Academy, New Delhi
The National Academy of Sciences, India, Allahabad

Quantum Mechanics is essential for understanding Physics, Chemistry and even modern Biology. A brief outline of the course is as follows: Schrödinger equation, hydrogen atom, mathematics of linear vector space, principles and postulates of quantum mechanics, angular momentum, perturbation theory (time-independent and time-dependent), scattering theory, quantum theory of radiation and Dirac equation.

Applications are invited from teachers with experience in teaching undergraduate and postgraduate courses in Physics. Maximum 40 applications will be considered and teachers who wish to participate in the Refresher Course may apply through proper channel with the following details: name, date of birth, gender, e-mail, official and residential addresses, telephone numbers, academic qualifications, courses taught, affiliation, positions held and tenure. It is also essential to submit a brief statement (between 250 and 500 words) as to why they think the Course will help to improve their classroom teaching of Quantum Mechanics. Applications should be submitted ONLINE by clicking the following link:

<http://web-japps.ias.ac.in:8080/Refreshcourse/RCMT.jsp>

A printed copy of the application approved by the Head of the institution should be sent by speed post to: **Prof. G. Rajasekaran**, Institute of Mathematical Sciences, Taramani, Chennai 600 113. Last date for receipt of applications: **5 January 2016**. Outstation candidates will be provided local hospitality and round trip bus/train (three- tier AC) fare by the shortest route. Please note that participants have to attend the full duration of the Course. Arrival: 7 February and Departure: 21 February 2016.

Course Director: Professor G. Rajasekaran, Institute of Mathematical Sciences, Taramani, Chennai 600 113.

Course Coordinator: Dr A. John Peter, Head, P.G. and Research Department of Physics, Government Arts College, Melur, Madurai 625 016 (e-mail: a.john.peter@gmail.com).