



## Science Academies' Refresher Course on Advanced Quantum Mechanics

at

**Post Graduate and Research Department of Physics,  
Government Arts College, Melur, Madurai, Tamil Nadu  
12–24 December 2016**

*Sponsored by*

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

The Course on Advanced Quantum Mechanics will include the topics: review of elementary quantum mechanics, foundational problems, EPR paradox, quantum computation, quantum theory of radiation, Fock space of photons, Lamb shift, relativistic quantum mechanics, Dirac equation and relativistic treatment of H atom.

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/RCAQM.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: **10 October 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: 11 December 2016 and Departure: 25 December 2016.

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

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