Information and Announcements

Science Academies’
Refresher Course on Quantum Mechanics
11–23 May 2015

at Department of Physics, Loyola College, Chennai 600 034, Tamilnadu

Sponsored by  Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, The National Academy of Sciences, India, Allahabad

A Refresher Course in ‘Quantum Mechanics’ for College/University teachers/research scholars will be held at the Post-Graduate and Research Department of Physics, Loyola College, Chennai, Tamilnadu, during 11–23 May 2015. The Course is primarily aimed at teachers involved in teaching quantum mechanics at the UG/PG level although a few seats will be available for research scholars in physics. The Course will cover the basic and advanced topics of quantum mechanics, through lectures and tutorials. College/University teachers having at least a Master’s degree in Physics are particularly encouraged to apply.

Topics: Most of the topics in a standard UG/PG level course syllabus will be covered. There will be four modules:

Module 1: History and Physical basis, Schrödinger equation, Free particles, Harmonic oscillator, H-atom; Module 2: Angular momentum theory and identical particles and spin; Module 3: Perturbation theory (degenerate and non-degenerate) and scattering theory; Module 4: Quantum theory of radiation and Relativistic Quantum mechanics-Klein-Gordon equation and Dirac Equation.

Resource Persons: Professors H S Mani (Chennai Mathematical Institute), G Rajasekaran (The Institute of Mathematical Sciences and Chennai Mathematical Institute), Govind Krishnaswami (Chennai Mathematical Institute), SVM Satyanarayana (Pondicherry central university)

Course Director: Professor H S Mani. Course Coordinator: Mr.C Joseph Prabagar, Loyola College Teachers/research scholars who wish to participate should send their applications online using the following link. http://web-japps.ias.ac.in:8080/Refreshcourse/RCQL.jsp

A printed copy of the application approved by the Head of the institution should be sent by speed post to: Prof. H S Mani, CMI, H1 SIPCOT IT Park, Siruseri, Kelambakkam, Chennai-603103, Tamilnadu.

For any further query, please e-mail to: qmrc2015@gmail.com. Please note that participants have to attend the full duration of the Course. Arrival- May 10 and Departure- May 24, 2015.

Last date for receipt of applications: March 15, 2015.