



Science Academies' Refresher Course in Quantum Mechanics for Nuclear and Particle Physics

at

**B.C.M. College, K.K. Road, Kottayam 686 001
1–15 December 2018**

Sponsored by

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

A refresher course in 'Quantum Mechanics for Nuclear and Particle Physics' for college/university teachers/research scholars will be held at B.C.M. College, Kottayam, Kerala during 1–15 December 2018. The course is primarily aimed at teachers involved in teaching Quantum Mechanics at the undergraduate/postgraduate levels. The course will cover basic and advanced topics of Quantum Mechanics for Nuclear and Particle Physics, through lectures and tutorials. College/university teachers having at least a Master's degree in Physics are particularly encouraged to apply. A brief outline of the course is as follows:

There will be four modules:

Module 1: Special Theory of Relativity

Module 2: Quantum Mechanics

Module 3: Introduction to Particle Physics

Module 4: Nuclear Physics

Resource persons: (1) **Prof. M V N Murthy** (The Institute of Mathematical Sciences, Chennai), (2) **Prof. H S Mani** (Adjunct Professor, Chennai Mathematical Institute, Tamil Nadu), (3) **Prof. K S Malleesh** (University of Mysore, Mysuru), (4) **Prof. Kamales Kar** (Ramakrishna Mission Vivekananda Educational and Research Institute, Belur, WB). Guest lectures are also expected by **Prof. V Ravishankar** (IIT, Delhi) and **Prof. D Indumathi** (IMSc, Chennai).

Applications are invited from teachers with experience in teaching undergraduate and postgraduate courses in physics. Up to 35 applications will be considered and teachers who wish to participate in the refresher course may apply through proper channels with the following details: name, date of birth, e-mail address, official and residential addresses, telephone numbers, academic qualifications, courses taught, affiliations, positions held and tenure. It is also essential to submit a brief statement (between 250 and 500 words) as to why the candidate believes the course will help him/her improve his/her teaching of Quantum Mechanics. Applications should be submitted ONLINE at the following link

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

A printed copy of the application approved by the head of the institution should be sent by speed post to the **Course Co-ordinator**. The last date for receipt of application is **15 October 2018**. Outstation candidates will be provided local hospitality and round trip bus/train (3 tier AC) fare by the shortest route between 30 November 2018 and only up to 15 December 2018.

Course Director: Prof. M V N Murthy, The Institute of Mathematical Sciences, Chennai.

Course Co-ordinator: Dr Elizabeth V John, Assistant Professor, Dept of Physics, BCM College, Kottayam 686 001, Mobile: 75588 97015.