



Science Academies' Refresher Course in Quantum Mechanics with a Special Emphasis on Nuclear and Particle Physics

at

St Philomena's College, Mysuru–Bengaluru Road, Bannimantap, Mysuru 570 015
17–31 December 2017

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 with a Special Emphasis on Nuclear and Particle Physics' for college/university teachers/research scholars will be held at St Philomena's College, Mysuru, during 17–31 December 2017. 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, placing special emphasis on using its ideas in Nuclear and Particle Physics, through lectures and tutorials. College/university teachers having at least a Masters' 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: Nuclear and Particle Physics; Module 4: Nuclear and Particle Physics.

Resource persons: H. S. Mani (Adjunct Professor, Chennai Mathematical Institute, Chennai), K. S. Mallesh (University of Mysore, Mysuru), M. V. N. Murthy (The Institute of Mathematical Sciences, Chennai), V. Nanal (Tata Institute of Fundamental Research, Mumbai). Ravishankar (IIT Delhi) and G. Rajasekaran (Institute of Mathematical Sciences, Chennai) are also expected to deliver guest lectures.

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 channel with the following details: name, date of birth, e-mail address, official and residential addresses, telephone numbers, academic qualification, courses taught, affiliation, 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 improve his teaching of Quantum Mechanics. Applications should be submitted **ONLINE** at the following link:

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

A printed copy of the application approved by the head of the institution should be sent by speed post to the course co-ordinators at St Philomena's College. Outstation candidates will be provided with local hospitality for the period of the conference (16 to 31 December) and one round trip bus/train (3 tier AC) fare.

Course Director: H. S. Mani, Chennai Mathematical Institute, Chennai 603 103.

Course co-ordinators: (1) Dr D. Revannasiddaiah, Professor and Head, Department of Physics (Postgraduate), St Philomena's College, Mysuru 570 015, e-mail: revannasiddaiah.d@gmail.com, Mobile: 98865 76762; (2) V. H. Belvadi, Assistant Professor, Department of Physics (Postgraduate), St Philomena's College, Mysuru 570 015, e-mail: vh@belvadi.com, Mobile: 94480 76477.

The last date for receipt of applications: **31 October 2017.**