The intertwining strands in Physics and Mathematics: Fourier analysis

A workshop for undergraduate teachers in Mathematics and Physics

Indian Institute of Science Education and Research, Pune
Jan 19-23, 2018

While the deep relationship between Physics and Mathematics, where ideas from one have often given very important insights and applications in the other, is very well-appreciated by the experts, this is often not adequately emphasized in the college level teaching of these subjects in India at B.Sc./M.Sc. level. The aim of this workshop will be to expose the Indian teachers in mathematics and physics to these shared grounds, and we will discuss the physical context of mathematical ideas, and vice versa, by taking Fourier analysis as an example.

Topics:
Basic concepts of Fourier theory, applications in Physics, applied mathematics, and computer science; e.g. functional analysis, partial differential equations, spectroscopy, signal-processing, complexity theory.

Application:
Applicants should fill the google form in order to apply for the workshop, link given below
https://goo.gl/forms/qwop5t34R7MuhjHD3 or scan the QR code
The last date of application is Dec. 10, 2017.
Selected participants will be provided local hospitality. Outstation participants will be reimbursed round trip 3-tier train fare (shortest route) from place of residence. Participants are expected to stay for the full duration of the workshop.

Organizers: Rohini Godbole (IISc) and Deepak Dhar (IISER P)

Lecturers:
A. Barve (IISER P), C. Bhagwat (IISERP), R. Bhatia (Ashoka University), A. Chorwadwala (IISERP), D. Ghoshal (JNU), R Godbole (IISc), R. Holkar (IISERP) J. Radhakrishnan (TIFR), and T. Souradeep (IUCAA)

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