



National Centre for Mathematics

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(A joint centre of TIFR and IIT Bombay)

Mathematical Panorama Lectures and Workshops

www.atmschools.org

Supported by National Board for Higher Mathematics



Eigenvalues of Operators with Gaps and Applications to the Dirac Operator

"A National Mathematics Year Event"

Venue: TIFR-CAM, Tata Institute of Fundamental Research, Bangalore

Dates: 26th October - 9th November, 2012.

Conveners: Mythily Ramaswamy & M. Vanninathan.

Mathematical Panorama Lectures

The 125th birth anniversary of Srinivasa Ramanujan falls in 2012. Government of India has declared it as the National Mathematics Year at the request of the Ramanujan Mathematical Society. Several mathematical activities are planned during 2012 and 2013. Among them a series of surveys called Mathematical Panorama Lectures are being planned. These are lecture courses given by eminent mathematicians on diverse topics of current research. These survey lectures will be accessible to research scholars and lead upto recent developments. The schools are offered mainly for Ph.D. students and lecturers.

Panorama Lectures by Prof. Maria J. Esteban

The lectures will be devoted to the spectral properties of operators with gaps and applications to the Dirac operator which is a basic model in Relativistic Quantum Mechanics. In addition, there will be preparatory lectures by others.

Eligibility for participation & Application Procedure

Applications are invited from research scholars, post doctoral fellows and young faculty members.

The online application form and other information about the programme is available on the website:

Http://www.atmschools.org/2012

The last date for on line registration is
30 Sept. 2012.

The list of selected candidates will be posted on the ATM Schools website on
3rd October 2012.

Financial Support

Selected participants will be paid AC 3-tier return train/State Transport Bus fare from their place of work to the venue by shortest route and provided with accommodation and local hospitality.

About the Principal Speaker



Maria J. Esteban is a director of research at the French CNRS (Centre national de recherche scientifique) and works at the University Paris-Dauphine. At present she is president of SMAI, the French society for applied and industrial mathematics and also the chair of the European Mathematical Society applied mathematics committee. Her main areas of expertise are the study of nonlinear partial differential equations, mainly with variational methods. In the past years she has worked intensely in relativistic quantum mechanics and its applications to quantum chemistry. Another scientific interest of hers is the study of fluid-structure interactions.