



Advanced Training in Mathematics Schools

Supported by National Board for Higher Mathematics

Advanced Training School for Lecturers in Partial Differential Equations

Venue: T.I.F.R. Centre for Applicable Mathematics, Bangalore

13 - 24 December 2010

Conveners: P. S. Datti & G. D. Veerappa Gowda

Brief description of ATM Schools

Advanced Training in Mathematics (ATM) Schools are a joint effort of a large number of mathematicians in the country for training mathematics research scholars and teachers with generous support from the National Board for Higher Mathematics. The programmes are conducted in reputed mathematics departments in Summer and Winter each year. In these Schools, the emphasis is on problems solving and on understanding interrelations of basic subjects in mathematics. At the initial stage, ATM Schools consist of two Annual Foundation Schools (AFS I & II) in algebra, analysis, and topology. At a later stage, Advanced Instructional Schools (AIS) and workshops (ATMW) in all major areas are organised. Several advanced instructional schools (ATML) are organized each year exclusively for young lecturers in colleges and universities.

ATM School for Lecturers in

Partial Differential Equations

Brief description of the school

The School aims to impart an advanced knowledge in the theory of partial differential equations (PDEs) to lecturers in various institutions in the country, with a hope that a course in PDEs will be introduced at the post-graduate level in the departments of Mathematics in the country. Such a course goes much beyond the existing courses which typically are of problems-solving type. It is hoped that the participants of this School will be able to train the post-graduate students in their departments to apply the important tool of analysis (Lebesgue Theory) to PDEs. After developing a few tools from Advanced Calculus, the topics covered in the school include Elliptic, Parabolic and Hyperbolic equations. There will be tutorials by speakers where problems, more examples and finer aspects of his/her lectures will be discussed.

Resource persons

Adimuthi	TIFR-CAM Bangalore
P S Datti	TIFR-CAM Bangalore
Mythily Ramaswamy	TIFR-CAM Bangalore
B R Nagaraj	TIFR-CAM Bangalore
K Sandeep	TIFR-CAM Bangalore
A S Vasudevamurthy	TIFR-CAM Bangalore

Financial Support

Selected participants will be paid II-AC return train fare from their place of work/home town to the venue by the shortest route and provided with accommodation and local hospitality.

Eligibility for participation

The School will admit about 30 participants who are lecturers, preferably those who have taught the existing courses in PDEs. The faculty in the department of mathematics from College/University/Research institute are eligible to apply.

How to Apply

The syllabus, applications form and other information about the programme is available on the website:

<https://math.tifrbng.res.in/atmlpde>

Application may also be made on plain paper, giving the following information:

Name, Date of Birth, Age, Gender, Institute/Department, Areas of Interest, Address for Correspondence, Email Address, City, State, Pin-code, Academic Record: B.Sc./M.Sc. and higher with Names of the Institutes and Additional Information including the teaching of PDE courses. These should be attested by Head/Principal of the institute.

Completed application forms should reach

P. S. Datti
ATML-PDE
T.I.F.R. Centre for Applicable Mathematics
Post Bag No: 6503
Sharada Nagar, Chikkabommasandra
Yelahanka New town, Bangalore-560065

Phone: 080-66953748 Fax: 080-66953799

email: psd@math.tifrbng.res.in

by **Saturday, October 2, 2010.**

List of selected candidates will be posted on the website:

<https://math.tifrbng.res.in/atmlpde>

on **Saturday, October 9, 2010.**

National Committee for the ATM Programme

Prof. J. K. Verma (Convener)	IIT Bombay
Prof. S. A. Katre	Pune U., Pune
Prof. S. Kesavan	IMSc, Chennai
Prof. Shobha Madan	IIT Kanpur
Prof. N. Nitsure	TIFR, Mumbai