



National Centre for Mathematics

www.ncmath.org

(A joint centre of TIFR and IIT Bombay)

Advanced Training in Mathematics Schools

www.atmschools.org

Supported by National Board for Higher Mathematics



Advanced Instructional School on Partial Differential Equations



Venue: T.I.F.R. Centre for Applicable Mathematics, Bangalore
17 December, 2012 - 4 January 2013

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

Brief description of ATM Schools

Advanced Training in Mathematics (ATM) Schools are a joint effort of a large number of researchers across the country with 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, emphasis is on problem solving and on highlighting inter-relations of basic subjects in mathematics. The schools are offered mainly for Ph.D. students and lecturers. Presently we invite applications for participation in

Advanced Instructional School on Partial Differential Equations

During the past decades, PDEs are playing an important role in science, engineering and industry as many situations in these fields have been modelled using PDEs. Thus, the study of PDEs, along with their numerics, has gained much importance. The main goal of this school is to develop some fundamental aspects of PDEs and their numerics. After a quick review of basics, advanced topics in partial differential equations will be discussed by specialists in the area which will lead to frontier research problems. Broadly, the topics include the fundamental elliptic, parabolic and hyperbolic PDEs. There will also be some lectures on computational aspects of PDEs. There will be tutorials by speakers where more examples, problems and finer aspects of the subject will be discussed.

Eligibility for participation

The school will admit 30 participants. Ph.D. students and post-docs whose main area of research is PDEs are eligible to apply. Young faculty from universities / research institutions who are very much involved in teaching or doing research in PDEs may also apply.

Financial Support

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

How to Apply

The syllabus, applications form and other information about the programme are available on the websites:

[Http://www.atmschools.org](http://www.atmschools.org)

Completed application forms should reach

Dr.P.S.Datti
AIS-PDE-2012
T.I.F.R. Centre for Applicable Mathematics
Post Bag No.6503,Sharada Nagar,
Chikkabommasandra
GKVK Post, Bangalore 560 065

e-mail: psd@math.tifrbng.res.in Phone: 080-66953748

Last date of application: 31st July, 2012.

List of selected candidates will be posted on the above mentioned website **on 5th August, 2012.**

Resource Persons

Saugata Bandyopadhyay	IISER, Kolkata
C Praveen	TIFR-CAM, Bangalore
K Sandeep	TIFR-CAM, Bangalore
K Sreenadh	IIT, Delhi
Prashanth Srinivasan	TIFR-CAM, Bangalore
Imran H Biswas	TIFR-CAM, Bangalore
N Sabu	IIST, Trivandrum
P S Datti	TIFR-CAM, Bangalore
K T Joseph	TIFR-CAM, Bangalore