



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 Geometry and Analysis

Venue : TIFR CAM, Bangalore

8th to 27th July, 2013

Organisers : Professor P.N. Srikanth and Professor Sagun Chanillo

Brief description of ATM Schools

Advanced Training in Mathematics (ATM) Schools are a joint effort of a large number of mathematicians across the country, with support from the National Board for Higher Mathematics. The programmes are conducted in reputed mathematics departments in Summer and Winter every year. The emphasis in these Schools is on solving problems, and on the relations between basic areas of mathematics. The schools are intended mainly for Ph.D. students and lecturers. Applications are now invited for participation in the following school.

Advance Instructional School on Geometry and Analysis

The subject Geometric Analysis has been a very active area of research for the past several decades and the studies in the area have been instrumental in solving several important problems in Mathematics. To mention a few, Ricci flow and proof of Poincare Conjecture, Study of harmonic maps, minimal surfaces, Yamabe problem, prescribing the curvatures, Complex manifolds and CR Yamabe problem, General relativity, Positive mass theorem, etc. Geometric analysis lies in the interface of several subjects like Geometry, PDE, Harmonic analysis, Topology and Nonlinear functional analysis.

The aim of this school is to train young mathematician in some of these subjects. It is also planned to follow up this with a conference in January 2014 with some of the leading experts in the area expected to lecture.

Eligibility for participation

Applications are invited from outstanding M.Sc/ M.Phil/ Young researchers working in PDE/ Differential Geometry/ Harmonic Analysis.

Financial Support

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

How to apply

Application form and other information about the programme are available on the following website :

<http://www.atmschools.org/2013>

Completed application forms should reach :

Professor K. Sandeep
TIFR CAM
Sharada Nagar, Chikkabommasadra
PB 6503, GKV Post
Bangalore 560 065
Email: ncm13@math.tifrbng.res.in

Last date for receiving completed application is :
March 3, 2013

List of selected candidates will be posted on the above mentioned website on: **March 15, 2013**

Resource Persons

Professor Adimurthi, TIFR- CAM, Bangalore

Professor Debraj Chakraborti, TIFR-CAM, Bangalore

Professor R. Kulkarni, IIT, Mumbai

Professor K. Sandeep, TIFR-CAM, Bangalore

Professor A. R. Shastri, IIT, Mumbai

Professor Sagun Chanillo, Rutgers Univ., USA

Professor P.N. Srikanth, TIFR-CAM, Bangalore

Professor Swagato Ray, ISI, Calcutta