



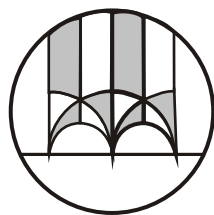
National Centre for Mathematics

www.ncmath.org

(A joint centre of TIFR and IIT Bombay)

Advanced Training in Mathematics Schools

www.atmschools.org



Workshop in Riemannian Geometry

Supported by National Board for Higher Mathematics

16 - 28 July, 2012

Conveners: C. S. Aravinda and Harish Seshadri

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, the emphasis will be 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

Workshop in Riemannian Geometry

This will be a 2-week event in which first 10 days will be devoted to rigorous instructional lectures in foundational topics in Riemannian Geometry. After discussing in detail the basic setting of Riemannian Geometry leading to a proof of the Hopf-Rinow theorem, celebrated theorems of Bonnet-Myers and Cartan-Hadamard that reflect an influence of sign on the sectional curvature, on the underlying topology of the manifold, will be discussed. The workshop will essentially end with a reasonably detailed discussion of the geometry of locally symmetric spaces. Last 2 days will have a conference component in which the various invited speakers will give overview lectures on their topic of research interest and mention some possible open problems for the Ph.D. students.

Eligibility for participation

Applications are invited from graduate students in mathematics and young teachers with a background of teaching differential geometry courses, at least a first course on curves and surfaces, at a college/university. Students doing M. Phil. may also be considered.

Financial Support

Selected participants will be paid III-AC return train fare from their place of work/home town 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 is available on the website:

<http://www.atmschools.org>

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. with names of the Institutes, additional information (if any). These should be attested by Head / Principal of the institute.

Completed application forms should reach

Prof. C. S. Aravinda
TIFR Centre for Applicable Mathematics
Post Bag No. 6503, GKVK Post Office
Sharada Nagar, Chikkabommasandra
Bangalore 560065
e-mail: aravinda@math.tifrbng.res.in

by 16 June, 2012. List of selected candidates will be posted on the websites of ATM Schools on 20 June, 2012.

Resource Persons

A.R. Aithal	Univ. Of Mumbai
C.S. Aravinda	TIFR CAM, Bangalore
G. Besson	Fourier Institute, Grenoble, France
A. Mangasuli	IISER, Bhopal
Akhil Ranjan	IIT B, Mumbai
G. Santhanam	IIT Kanpur
Harish Seshadri	IISc, Bangalore