



Advanced Training in Mathematics Schools

Supported by the *National Board for Higher Mathematics*

Workshop on Riemannian Geometry

Venue: **TIFR CAM, Bangalore**

19-30 July, 2010

Conveners: *C. S. Aravinda & Harish Seshadri*

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 problem solving and on understanding inter-relations 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

Workshop on Riemannian Geometry

The aim of this advanced workshop is to discuss basic Riemannian geometry together with important examples and focus on certain techniques which have proved very useful over the years. We will also discuss some well-known structure theorems which reflect topological consequences of certain signs on curvatures.

Eligibility for Participation

The workshop will admit 30 students in their second and third years of Ph.D. programme, postdoctoral fellows and some college/university teachers.

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.

National Committee for the ATM Programme

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

How to Apply

The syllabus, application form and other information about the programme are available on the website:

<http://www.bprim.org/atm>

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

Name, Date of Birth, Age, Gender, Institute/Department, Areas of interest, List of Ph.D. courses (including reading courses) completed, ATM Schools attended, Any other workshop in mathematics attended, Address for correspondence, email address, City, State, Pincode, Academic Record: B.Sc./M.Sc. with names of the institutes. These should be attested by Head/Principal of the institute.

Completed applications may be sent by mail or a scanned copy may be sent by email to

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by **Wednesday, 19 May 2010**. List of selected candidates will be posted on the ATM School website on **Tuesday, 25 May 2010**.

Resource persons

C S Aravinda	Siddhartha Gadgil
S Kumaresan	Anandateertha Mangasuli
G Santhanam	Harish Seshadri
K Shankar	Kaushal Verma

Guest Speakers

T N Venkataramana, Gautam Bharali