



Advanced Training in Mathematics Schools

Supported by *National Board for Higher Mathematics*

Workshop on Several Complex Variables and Complex Dynamics

Venue: IISc, Bangalore

1 - 13 March, 2010

Convener: G. Bharali, G. Misra & K. Verma

Brief Description of ATM Schools

The Advanced Training in Mathematics (ATM) Schools are a joint effort of more than 50 active 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.

Workshop on

Several Complex Variables & Complex Dynamics

The aim of this workshop is to highlight the basics of function theory in several complex variables and complex dynamics in the plane. In several complex variables, the plan is to lead participants towards a characterisation of the domains of holomorphy. Topics covered along the way include: analytic continuation, plurisubharmonic functions, and the Levi form. In complex dynamics, the aim will be to understand the basic Fatou-Julia dichotomy for rational maps.

During the second week of the ATMW, there will be several series of lectures by invited speakers that will focus on more specialised topics.

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

Prof. Gautam Bharali
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& Complex Dynamics
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by **Friday, 1 January 2010**. List of selected candidates will be posted on the ATM School website on **Friday, 8 January 2010**.

Resource persons

Gautam Bharali IISc, Bangalore
Kaushal Verma IISc, Bangalore

Invited Speakers

R. Bhatia Tirthankar Bhattacharya
Indranil Biswas R. R. Simha
A. P. Singh