



Advanced Training in Mathematics Schools

Supported by *National Board for Higher Mathematics*

Advanced Instructional School in Complex Analysis

Venue: *Bhaskaracharya Pratishthana, and University of Pune, Pune*

5 June-2 July, 2008

Conveners: *Dinesh Thakur and S. A. Katre*

Brief Description of ATM Schools

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 problems solving and on highlighting inter-relations of basic subjects in mathematics. The schools are offered mainly for Ph.D. students and lecturers. At the initial stage, ATM Schools consist of two Annual Foundation Schools (AFS I & II) in basic topics such as algebra, analysis, and topology. At a later stage, Advanced Instructional Schools in different topics in Mathematics are organised especially for students who wish to pursue research in related areas.

Advanced Instructional School in Complex Analysis

In this school, after introductory lectures on Complex Analysis, some advanced topics such as Introduction to Riemann surfaces, several variables theory, Teichmuller Theory will be discussed. There will be problem sessions in the afternoon and UM lectures. There will be emphasis on understanding various approaches and viewpoints to the subject matter, basic techniques, applications to Number Theory and Physics. Emphasis on examples, calculations as well as proofs. Several lectures should lead to live research topics.

We expect that there will be some follow-up workshops to this material in the next two years.

A special feature of this AIS programme is the inclusion of "Unity of Mathematics" Lectures on applications and interconnections with other parts of mathematics and science.

National Coordinating Committee

Director	R. S. Kulkarni	IIT Bombay
Secretary	J. K. Verma	IIT Bombay
Members	S. D. Adhikari	HRI, Allahabad
	Satya Deo	HRI, Allahabad
	S. A. Katre	Pune U., Pune
	Shobha Madan	IIT Kanpur
	I. B. S. Passi	Panjab U., Chandigarh
	R. A. Rao	TIFR, Mumbai

Eligibility for Participation

The school will admit 40 students in their first and second years of Ph.D. programme, and a few young university lecturers and college teachers. Students who have attended AFS-I/II before will be given preference to attend this school.

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 websites:

<http://www.math.iitb.ac.in/atm> or www.bprim.org

Applications 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, Pincode, Academic Record: B.Sc./M.Sc. with names of the Institutes. These should be attested by Head/Principal of the institute.

Completed application forms should reach

Prof. S. A. Katre
AIS-Complex analysis
C/o, Bhaskaracharya Pratishthana,
56/14, Erandavane, Damle Path,
Off Law College Road, Pune - 411 004.
e-mail: sakatre@bprim.org

Phone/Fax: 91-22-25434547, Phone: 91-22-25410724

by **Saturday, April 12, 2008.(Extended, 25th April)**. List of selected candidates will be posted on the website of ATM Schools on **Saturday, April 19, 2008.(Extended, 30th April)**.

Resource persons

Sudhir Ghorpade	S. A. Katre	Ravi Kulkarni
A. R. Shastri	R. R. Simha	Dinesh Thakur
	Kaushal Verma	

Unity of Mathematics Lectures

R. Balasubramanian Ashok Raina