



Advanced Training in Mathematics Schools

Supported by *National Board for Higher Mathematics*

Advanced Instructional School in Algebraic Geometry

Venue: *Bhaskaracharya Pratishthana, Pune*

30 Nov - 19 Dec, 2009

Conveners: Nitin Nitsure 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 Algebraic Geometry

In this school, the syllabus will be the basic algebraic theory of affine and projective varieties over algebraically closed fields.

The lectures will follow the first chapter of the textbook 'Algebraic Geometry' by R. Hartshorne, with suitable modifications. The above book is a standard textbook internationally, and is also available in an Indian print.

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 30 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, application form and other information about the programme is 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, 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
 Coordinator, AIS in Algebraic Geometry
 C/o, Bhaskaracharya Pratishthana,
 56/14, Erandavane, Damle Path,
 Off Law College Road, Pune - 411004.
 e-mail: aisbim@gmail.com

Phone/Fax: 91-20-25434547, Phone: 91-20-25410724

by **Thursday, 10th Sept., 2009**. List of selected candidates will be posted on the website of ATM Schools on **Thursday, 17th Sept., 2009**.

Resource persons

Jishnu Biswas	ISI Bangalore
Amit Hogadi	TIFR Mumbai
Nitin Nitsure	TIFR Mumbai