



# Advanced Training in Mathematics Schools

Supported by *National Board for Higher Mathematics*

## Advanced Instructional School in REPRESENTATION THEORY

Venue: *Indian Statistical Institute (ISI), Bangalore*

*02–24 June 2010*

Conveners: *K. N. Raghavan and N. S. Narasimha Sastry*

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### A 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 problems 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

### AIS in Representation Theory

This AIS is aimed at those pursuing (or intending to pursue) research in any area of mathematics related (in a broad sense) to the representation theory of finite groups.

The basic concepts and results of both the ordinary and the modular theory (particularly the latter) will be introduced. A basic knowledge of mathematics (particularly algebra) as taught in the *foundational schools* will be assumed but no more.

Those working with or expecting to work with groups of any kind (finite, Lie, algebraic,  $p$ -adic, quantum, ...) are encouraged to apply. So are students with the pre-requisite background but still undecided about their area of research. Participants apart, post-docs and young faculty working in the area will be invited to participate (to be in charge of tutorials or just to attend).

#### Resource persons

Bhaskar Bagchi	Shripad Garge
Upendra Kulkarni	Amit Kulshrestha
K. N. Raghavan	N. S. N. Sastry
Anupam Kumar Singh	Maneesh Thakur

### Eligibility for Participation

The school will admit about 30 participants who are judged to have the requisite background and who demonstrate an interest in the subject. Students who have attended AFS-I/II before might be given preference in selection.

### 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 will be 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. N. S. N. Sastry  
 Stat-Math Unit, Indian Statistical Institute  
 8th Mile, Mysore Road, R. V. College Post  
 Bengaluru 560059  
 Phone: (080) 2848–3002 (Off.), 09449 070147(M)  
 2848–2724 (Maths Off.)  
 Fax: 091-80-28484265

by **Saturday, 10th April, 2010**. List of selected candidates will be posted on the website of ATM Schools on **Saturday, 24th April, 2010**.

#### NBHM Committee for the ATM Programme

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