



# National Centre for Mathematics

www.ncmath.org

(A joint centre of TIFR and IIT Bombay)

## Advanced Training in Mathematics Schools

www.atmschools.org

Supported by National Board for Higher Mathematics



## Advanced Instructional School on Aspects of Galois Theory

Venue: **Harish-Chandra Research Institute, Allahabad**  
**10 - 29 December, 2012**

**Organisers: N. Raghavendra and D. S. Ramana**

### Brief description of ATM Schools

Advanced Training in Mathematics (ATM) Schools are a joint effort of a large number of mathematicians across the country, with support from the National Board of Higher Mathematics. The programmes are conducted in reputed mathematics institutions in the summer and winter every year. The emphasis in these Schools is on solving problems, and on the relations between basic areas of mathematics. The schools are intended mainly for Ph.D. Students and lecturers. Applications are now invited for participation in the following School.

### Advanced Instructional School on Aspects of Galois Theory

The School will be devoted to the study of some aspects of Grothendieck's generalisation of Galois theory, and its relations with fundamental groups. This topic is fundamental to both number theory and algebraic geometry, and has numerous relationships with other areas in these two subjects. The School would be beneficial to students who wish to understand the basics of the topic. There has been a large amount of work in recent years on fundamental group schemes, Tannakian categories, and their interactions with the theory of moduli spaces of bundles over algebraic varieties. It is hoped that the School would help students to understand some of that work.

### Eligibility for participation

The School will admit 30 Ph.D. students and post-doctoral fellows whose main areas of interest are algebra, algebraic geometry, or number theory. Young faculty from universities and research institutes, who are involved in teaching or research in these subjects may also apply.

### Financial support

Selected participants will be paid return train fare in III AC class by the shortest route from their place of work to the venue of the School. They will be provided accommodation and local hospitality at the venue of the School.

### How to apply

The application, syllabus, and other information about the programme are available at the following Web site:

<http://atmschools.org/2012/ais/agt>

Students must submit the form online, and also send a hard copy of the completed application, attested by the head of their department, to the following address:

**N. Raghavendra and D. S. Ramana**  
**AIS on Aspects of Galois Theory**  
**Harish-Chandra Research Institute**  
**Chhatnag Road, Jhunsi**  
**Allahabad 211 019**

The email addresses of the organisers are :

**N. Raghavendra <raghu@hri.res.in>**  
**and**  
**D. S. Ramana <suri@hri.res.in>**

The last date for receiving completed applications is  
**30 September, 2012.**

The list of selected candidates will be posted  
at the above Web site on  
**7 October, 2012.**

### Resource Persons

<b>V. Balaji</b>	<b>CMI, Chennai</b>
<b>A. Hogadi</b>	<b>TIFR, Mumbai</b>
<b>K. N. Raghavan</b>	<b>IMSc, Chennai</b>
<b>N. Raghavendra</b>	<b>HRI, Allahabad</b>
<b>D. S. Ramana</b>	<b>HRI, Allahabad</b>
<b>V. Srinivas</b>	<b>TIFR, Mumbai</b>