



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 in Algebra

3 - 21 July, 2012

Venue: IISER Mohali

Conveners: Sudesh Kaur Khanduja and Gurmeet K. Bakshi

Brief description of ATM Schools

Advanced Training in Mathematics (ATM) Schools are a joint effort of a large number of 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 interrelations of basic subjects in Mathematics. The schools are offered mainly for Ph.D. students and lecturers. Presently we invite applications for participation in

Advanced Instructional School in Algebra

In this AIS, we aim to discuss basic notions in non-commutative rings, algebraic number theory, representation theory of finite groups and then focus on the algebraic structure of group rings, representations of symmetric groups and finite groups of Lie type. Applications to Fermat's last theorem and to coding theory will also be discussed.

Eligibility for Participation

Ph.D. students who have undergone a first course in Algebra are eligible to apply. Exceptionally good final year M.Sc. students who have had good exposure to Algebra may also apply.

Financial Support

Selected participants will be paid III-AC return train fare from their place of work 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.atmschools.org/2012](http://www.atmschools.org/2012)

Completed application forms should reach

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Indian Institute of Science Education & Research
Sector 81, Knowledge City, P.O. Manauli
S.A.S. Nagar, Mohali (Punjab) 140306
email skhanduja@iisermohali.ac.in

Last date of Application: April 16, 2012.

List of selected candidates will be posted on the website of ATM schools on **April 20, 2012.**

Resource Persons

R.J. Hans Gill	Punjab Univ., Chandigarh
Ravi Kulkarni	IIT Bombay
Dipendra Prasad	TIFR Mumbai
Sudesh K. Khanduja	IISER Mohali
Ashwani K. Bhandari	Punjab Univ., Chandigarh
Kapil Paranjape	IISER Mohali
Murli Srinivasan	IIT Bombay
Gurmeet K. Bakshi	Punjab Univ., Chandigarh