



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 Algebraic Combinatorics

Venue : Indian Statistical Institute, Bangalore

24th June to 13th July, 2013

Organisers : N. S. Narasimha Sastry & Sudhir R. Ghorpade

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 for Higher Mathematics. The programmes are conducted in reputed mathematics departments in 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 in Algebraic Combinatorics

This school is addressed to research students and young researchers in algebraic combinatorics and its applications. In this programme, we plan a series of comprehensive lectures on several major topics in algebraic combinatorics, augmented by tutorials and additional lectures related to the themes of the main lectures. Some of the topics to be covered would be : Witt designs and their automorphisms, finite incidence geometries, combinatorics of Leech lattice, combinatorics of Young tableaux and symmetric polynomials, linear error correcting codes and some of their interrelations with algebraic geometry, combinatorial applications of linear algebra.

Eligibility for participation

Applications are invited from Ph.D. students in Mathematics, especially those working in the areas of Algebra and Combinatorics, or from lecturers in Mathematics who have qualified in NET / SET or equivalent examination and are teaching at a college/university. Students doing M.Phil and exceptionally well prepared M.Sc./B.Tech. students may also be considered for the school. Applicants below the age of 35 will be given preference.

Financial Support

Selected participants will be paid AC 3-tier return train fare from their place of work to the venue by the shortest route and will be provided with free accommodation and local hospitality.

How to apply

Application form and other information about the programme are available on the following website :

<http://www.atmschools.org>

Completed application forms should reach :

Professor N.S.N. Sastry
Indian Statistical Institute
R.V. College Post, Bangalore 560 059
Email: atm2013@isibang.ac.in

Last date for receiving completed application is
February 10, 2013

List of selected candidates will be posted on the
above mentioned website on :
February 20, 2013

Resource Persons

| | |
|------------------------------|----------------|
| Prof. Bhaskar Bagchi | ISI, Bangalore |
| Prof. Sudhir R. Ghorpade | IIT Bombay |
| Prof. Amritanshu Prasad | IMSc., Chennai |
| Prof. Sharad S. Sane | IIT Bombay |
| Prof. N. S. Narasimha Sastry | ISI, Bangalore |
| Prof. Murali K. Srinivasan | IIT Bombay |

Unity of Mathematics :

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|--------------------------|----------------|
| Prof. N. M. Singhi | TIFR, Mumbai |
| Prof. R. Balasubramanian | IMSc., Chennai |
| Prof. R. B. Bapat | ISI, Delhi |
| Prof. M.S. Raghunathan | IIT Bombay |