



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)



ATM Workshop on Chevalley Groups

Venue : Indian Institute of Science Education and Research (IISER) Pune

13th to 25th May, 2013

Organisers : Prof. Anupam Kumar Singh & Prof. Shripad M. Garge

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

Workshop on Chevalley Groups

Lie Theory is one of the important branches of mathematics. Towards this, an AIS was organised earlier (July 2011) in CMI where classification of the finite dimensional Lie algebras was done. The aim of this workshop is to learn about Chevalley groups in detail. In 1955, Chevalley constructed certain groups starting from semisimple Lie algebras. The idea allowed him to construct certain algebraic groups over arbitrary fields and the F_q points of these groups turned out to be related to (finite) simple groups. The work of Chevalley was further generalised by Steinberg in 1959. Here he discovered many previously unknown finite simple groups. Chevalley groups are examples of algebraic groups defined over a base field.

Eligibility for participation

The workshop is aimed at Ph.D. students and post doctoral fellows working in and around Lie Theory. The knowledge of classification of finite dimensional simple Lie algebras, root systems etc. is required to follow the lectures in this workshop.

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 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/2013>

<https://sites.google.com/site/chevalleygroups/>

Completed application forms should reach :

Prof. Anupam Kumar Singh
IISER Pune, Central tower, Sai Trinity building,
Pashan circle, Sutarwadi, Pune. 411 021.
Email : chevalleygroups@gmail.com

Last date for receiving completed application is :

25 December 2012

List of selected candidates will be posted on the above mentioned website on :

1 January 2013

Resource Persons

1. Anupam Kumar Singh, IISER Pune.
2. Anuradha Garge, CBS Mumbai.
3. Shripad Garge, IIT Bombay.
4. B. Sury, ISI Bengaluru.
5. K. N. Raghavan, IMSc Chennai.
6. R. P. Shukla, Allahabad University.
7. Maneesh Thakur, ISI Delhi.
8. Upendra Kulkarni, CMI Chennai.