



Advanced Training in Mathematics Schools

Supported by National Board for Higher Mathematics
Advanced Training School for Lecturers in

Number Theory

Venue: Harish-Chandra Research Institute, Allahabad

22nd December 2011 - 4th January 2012

Conveners: **D. S. Ramana & R. Thangadurai**

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 each year. In these Schools, the emphasis will be on problems solving and on highlighting inter-relations of basic subjects in mathematics. The schools are offered mainly for Ph.D. students and lecturers. Presently we invite applications for participation in

ATM School for Lecturers in **Number Theory**

Brief description of the school

In this school our theme is Number Theory. The aim is to cover the book 'A Course in Arithmetic' by J. P. Serre. The topics to be discussed are : quadratic reciprocity, p -adic fields, Hilbert symbol, quadratic forms over \mathbb{Q} and \mathbb{Q}_p , Hasse-Minkowski Theorem, Dirichlet's theorem on primes in an arithmetic progression, and modular forms. A background in elementary number theory will be useful.

Eligibility for participation

Applications are invited from lecturers in mathematics who have passed NET/SET or equivalent examination and who are teaching at a college/university/PG Centre. Students doing M. Phil. may also be considered for the school. Teachers below the age of 30 will be given preference.

Resource persons

S. D. Adhikari
 B. Ramakrishnan
 D. S. Ramana
 C. S. Dalawat
 K. Chakraborty
 G. Prakash
 R. Thangadurai

All the speakers are from HRI, Allahabad.

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 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/2011>

Online application can be done from the website and the applicants will get a copy of the application. An attested hard copy is to be sent to the coordinator.

Application 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, additional information (if any). These should be attested by Head/Principal of the institute.

Completed application forms should reach

Dr. R. Thangadurai
 Coordinator, ATML
 Harish-Chandra Research Institute Campus
 Chhatnag Road, Jhansi
 Allahabad 211019
 e-mail: thanga@hri.res.in
 Phone: +91 9956062140 (Mob.)
 0532 - 2274313 (O)
 Fax: +91 (532) 2567748, 2567444

by **Friday, Sep. 30, 2011**. List of selected candidates will be posted on the website of ATM Schools by **Monday, 10th Oct., 2011**.

National Committee for the ATM Programme

Prof. S. A. Katre
 Prof. S. Kesavan
 Prof. Shobha Madan
 Prof. N. Nitsure
 Prof. J. K. Verma (Convener)

Pune U., Pune
 IMSc, Chennai
 IIT Kanpur
 TIFR, Mumbai
 IIT Bombay