



# Advanced Training in Mathematics Schools

Supported by National Board for Higher Mathematics  
**Advanced Training School for Lecturers in  
 Geometric Complex Analysis**

(Complex Analysis Geometric Perspective)

Venue: Department of Mathematics, University of Delhi, Delhi

21st March, 2011 2nd April, 2011

Conveners: **Ajay Kumar & Sanjay Kumar Pant**

## Brief description of ATM Schools

Advanced Training in Mathematics (ATM) Schools are a joint effort of more than 50 active 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 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 Geometric Complex Analysis

## Brief description of the school

In this school our theme is Geometrical Aspects of complex analysis. The first week of the school is devoted to refresh the basic complex analysis. In the second week first half we hope to cover some advanced topics such as infinite products and Riemann mapping theorem and its consequences. Second half is devoted to geometric function theory emphasizing harmonic functions, subharmonic functions and introduction to Dirichlet problem. There are series of lectures on unifying theme of complex analysis and differential geometry as well as introduction to hyperbolic geometry.

This ATM school is for lecturers and most of the participants are lecturers in undergraduate colleges. This school aims to impart not only rudimentary aspects of complex analysis but a broad and unifying approach of this beautiful subject. We hope that after attending the school they will see the whole canvas from the top and will gain a better appreciation of the subject.

## 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. Students doing M. Phil. may also be considered for the school. Teachers below the age of 30 will be given preference.

### National Committee for the ATM Programme

Prof. S. A. Katre	Pune U., Pune
Prof. S. Kesavan	IMSc, Chennai
Prof. Shobha Madan	IIT Kanpur
Prof. N. Nitsure	TIFR, Mumbai
Prof. J. K. Verma (Convener)	IIT Bombay

## 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, applications form and other information about the programme is available on the website:

<http://www.bprim.org/atm>

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

Prof. Ajay Kumar  
 Coordinator, ATML  
 Department of Mathematics,  
 University of Delhi, Delhi - 110007  
 e-mail: [atmldu@gmail.com](mailto:atmldu@gmail.com), [akumar@maths.du.ac.in](mailto:akumar@maths.du.ac.in),  
[ak7028581@googlemail.com](mailto:ak7028581@googlemail.com)  
 Phone: 0-9810528236 (S. Pant)(Mob.)  
 011-27666658(O)  
 Fax: 011-27010937 (Attn. Prof. Ajay Kumar)

by **Monday, Feb 7, 2011**. List of selected candidates will be posted on the websites of ATM Schools on **Monday, 13th Feb., 2011**.

### Resource persons

R. K. Panda (RKP)	Delhi University
Ajay Kumar (AK)	Delhi University
Harish Chandra (HC)	BHU, Varanasi
A. R. Shastri (ARS)	IITB
R. R. Simha (RRS)	TIFR
Kaushal Verma(KV)	IISc
Ravi Kulkarni	IITB
Krishna Kaipa	IITB
K. Gongopadhyay	IISER, Mohali

### Unity of Mathematics Lectures

Dinesh Singh