



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)



Instructional School for Teachers on "Geometric Measure Theory"

Venue : CEMS, SSJ Campus, Kumaun University, Almora.

9th December to 21st December 2013

Organisers : C S Aravinda, H S Dhami, Sanjay K Pant

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.

Instructional School for Teachers on geometric measure theory

After discussing the basic construction of Lebesgue measures on Euclidean spaces, the school aims to discuss certain topics in Geometric Measure Theory. In particular, it will discuss Hausdorff measures, compute Hausdorff dimensions of Cantor-like sets, discuss certain basic results in Diophantine approximation, Badly approximable numbers, Liouville numbers, Schmidt Game winning sets and a proof of Khinchin's theorem. It will also discuss Kakeya needle problem and Besicovitch sets. The CEMS, Kumaun University, Almora, where the programme is to be hosted, has been created for the purpose of fostering activities in advance mathematics in the region around Uttarakhand.

Eligibility for participation

The school is meant for 30 teachers of mathematics at the college level, though exception will be made for a small number of research scholars.

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>

Completed application forms should reach :

Professor H S Dhami

Coordinator, CEMS

Department of Mathematics

SSJ Campus, Kumaun University, Almora

Almora, Uttarakhand -263601

Email: drhsdhami@gmail.com,

Last date for receiving completed application is:

12th July, 2013

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

19th July, 2013

Resource Persons

Vikram Aithal, CBS, Mumbai

C S Aravinda, TIFR CAM, Bangalore

Jayadev Athreya, University of Illinois

Kingshook Biswas, RKMV, Belur

Harish Chandra, BHU, Varanasi

Anish Ghosh, University of East Anglia, UK

Gowri Navada, Periyar University, TN

Sanjay K Pant, DU and CEMS, Almora

Shrihari Sridharan, CMI, Chennai

M. K. Vemuri, CMI, Chennai