# Advanced Training in Mathematics Schools

*Supported by National Board for Higher Mathematics*

## Workshop on Geometry of Banach Spaces and Its Applications

*Venue: Indian Statistical Institute, Bangalore*

**1 - 13 June, 2009**

*Convener: T.S.S.R.K. Rao*

## Brief description of ATM Schools

Advanced Training in Mathematics (ATM) Schools are a joint effort of more than fifty 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.

## Workshop on

### Geometry of Banach Spaces & Its Applications

Basic knowledge in algebra, analysis, and topology forms the core of all Advanced Instructional Schools and Workshops to be organized in the ATM programme. This workshop is intended as a followup of several basic and advanced programs on Functional Analysis and Operator theory that were conducted during past 3 years with the support of the NBHM.

Geometry of Banach spaces has emerged as an important area of Banach space theory and has deep applications in operator theory, approximation theory, as well as other branches of Analysis. In view of the importance of these topics to researchers and university teachers working in Functional Analysis, we would like to hold a 2-week Workshop.

The Principal speakers are leading experts in Operator theory of Banach spaces and applications of Geometry of Banach space techniques to proximinality theory. They will be lecturing on topics leading to current areas of research and will develop ideas leading to some open problems in these areas.

## 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.

## Eligibility for participation

The workshop will admit 25 students in their first and second years of Ph. D. programme, Postdoctoral fellows and some college/university teachers.

## How to Apply

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

### http://www.bprim.org/atm

Applications 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. These should be attested by Head/Principal of the institute.

**Completed application forms should reach**

> T. S. S. R. K. Rao
> Co-ordinator (ATMW)
> Head, Indian Statistical Institute
> 8th Mile Mysore Road,
> R. V. College-PO, Bangalore -560 059
> email: *tss@isibang.ac.in*
> Phone: 91-80-28483001, Fax : 91-80-28484265

by **Monday, 20th, April 2009.** List of selected candidates will be posted on the website of ATM Schools on **Friday 24th, April 2009.**

| *Resource Persons* | |
|---|---|
| M. Martin | Interplay between Geometry of Banach Spaces & Numerical Index of operators on Banach spaces |
| V. Indumathi | Basic theory of proximinal & strongly proximinal spaces |
| P. Bandyopadhyay | Ball remotality |
| A. K. Roy and T.S.S.R.K. Rao | Linear preservation problem & the algebraic reflexivity |
| B. V. R. Bhat | Geometry of operator spaces |