



Advanced Training in Mathematics Schools

Supported by *National Board for Higher Mathematics*

Co-ordinating Institute: Bhaskaracharya Institute in Mathematics (BIM), Pune

Workshop on Arithmetic Geometry

Venue: *I. I. T., Guwahati*

22 - 30 September, 2008

Conveners: *R. Sujatha, A. Saikia and C. S. Dalawat*

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 Arithmetic Geometry

The Main conjectures in Iwasawa theory are among the deepest conjectures in modern arithmetic geometry. In the last quarter of the 20th century, A. Wiles proved the main conjecture for abelian extensions of totally real fields, using Hida's theory of families of modular forms. The aim of the workshop will be to discuss the tools used, and the proof of A. Wiles.

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 a 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 teachers.

How to Apply

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

<http://www.math.iitb.ac.in/atm> or
<http://www.bprim.org>

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. The completed application form (preferably by e-mail) should reach by **Tuesday, 15th July, 2008** to:

Dr. Anupam Saikia
Department of Mathematics
Indian Institute of Technology (IIT), Guwahati
Guwahati-781039, Assam
Email: aisiitg0908@gmail.com
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List of selected candidates will be posted on the website of ATM schools on **Tuesday, 22nd July, 2008**.

Resource Persons

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