



National Centre for Mathematics

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(A joint centre of TIFR and IIT Bombay)

Mathematical Panorama Lectures and Workshops

www.atmschools.org

Supported by National Board for Higher Mathematics



Workshop on Syzygies and Free Resolutions

“A National Mathematics Year Event”

Venue: Chennai Mathematical Institute, Siruseri, Tamilnadu.

17 – 28 December, 2012

Conveners: Manoj Kummini, D. S. Nagaraj

Mathematical Panorama Lectures

The 125th birth anniversary of Srinivasa Ramanujan falls in 2012. Government of India has declared it as the National Mathematics Year at the request of the Ramanujan Mathematical Society. Several mathematical activities are planned during 2012 and 2013. Among them a series of surveys called Mathematical Panorama Lectures are being planned. These are lecture courses given by eminent mathematicians on diverse topics of current research. These survey lectures will be accessible to research scholars and lead upto recent developments. The schools are offered mainly for Ph.D. students and lecturers. Presently we invite applications for participation in

Workshop on Syzygies and Free Resolutions

This workshop will consist of a week-long preparatory workshop (17-22 December 2012), for graduate students and young researchers, on syzygies and free resolutions followed, in the next week (24-28 December 2012), by lectures on recent developments in this area. The principal speaker for the second week will be Prof. David Eisenbud (University of California, Berkeley, USA), who will give a series of lectures on free resolutions. In addition to Prof. Eisenbud's talks, we will have a series of lectures by experts in the area of syzygies and free resolutions.

Resource Persons

Krishna Hanumanthu	CMI, Chennai
Manoj Kummini	CMI, Chennai
K. N. Raghavan	IMSc, Chennai
Pramathanath Sastry	CMI, Chennai

Eligibility for participation

Applications are invited from research scholars and young researchers working in commutative algebra and algebraic geometry. Preference will be given to those research scholars who have attended Advanced Instructional Schools or ATM Workshops in these areas.

Financial Support

Selected participants will be paid AC 3-tier return train fare from their place of work to the venue by shortest route and provided with accommodation and local hospitality.

How to Apply

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

<http://www.atmschools.org>

The last date for submission of the application is **31 July 2012**. The list of selected candidates will be posted on the ATM Schools website on **3 August 2012**.

About the Principal Speaker



Prof. David Eisenbud is a professor of mathematics at University of California, Berkeley, USA. Prior to this, he was the President of the American Mathematical Society and the Director of the Mathematical Sciences Research Institute. He has previously taught at Brandeis University and has had visiting positions at Harvard University, Institut des Hautes Etudes Scientifiques and University of Bonn. He has made fundamental contributions to commutative algebra and algebraic geometry, especially to the study of syzygies and free resolutions.