



INTERNATIONAL
CENTRE *for*
THEORETICAL
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

WORKSHOP ON

BLOCH-KATO CONJECTURES FOR RIEMANN ZETA FUNCTION

JULY 17 - 21, 2012

To be followed by

THE PAN ASIAN NUMBER THEORY CONFERENCE

July 23 - 27, 2012

IISER PUNE, INDIA

Objective

The aim of the Workshop will be to present a detailed proof of the highly important case of Bloch-Kato Conjectures for the values of the Riemann zeta function at the odd positive integers. The special values of the Riemann zeta function have been important in Number Theory since the work of Euler in the eighteenth century. In the 1970's, A. Borel proved that the values at the odd positive integers were linked to K-theory via regulator maps. As an important special case of general conjectures, Bloch and Kato refined Borel's work to give an exact arithmetic formula for these values. This Bloch-Kato conjecture has subsequently been proven with major contributions by Bloch, Kato, Huber, Kings, Soulé and Wildeshaus. No self-contained account of this important body of work exists at present in the literature, and we hope to fill this gap. A detailed and comprehensible account of the full proof will be presented at the workshop. We plan to include as much relevant background material as possible. This workshop will be a great opportunity for young researchers and students to acquaint themselves with the current state of the subject.

Speakers for the Workshop

D. Blasius (UCLA)
J. Coates (Cambridge)
R. Greenberg (Washington)
A. Huber (Freiburg)
G. Kings (Regensburg)
S. Lichtenbaum (Brown)
A. Raghuram (OSU/IISER)
A. Saikia (IIT Guwahati)
R. Sujatha (TIFR)

Important Dates

Registration begins: 1st November, 2011

Registration closes: 29th February, 2012

Announcement of

list of participants: 15th March 2012

Financial Support

Food and lodging to all participants and partial travel support is available.

Organizing Committee

J. Coates (Cambridge)
S. Maity (IISER)
A. Raghuram (OSU/IISER Pune)
A. Saikia (IITG)
R. Sujatha (TIFR)

Additional information

Email: pant2012@gmail.com

<http://www.icts.res.in/program/PANT>

<http://www.iitg.ernet.in/a.saikia/workshop.htm>