Berlin Mathematical School

BMS Kovalevskaya Colloquium
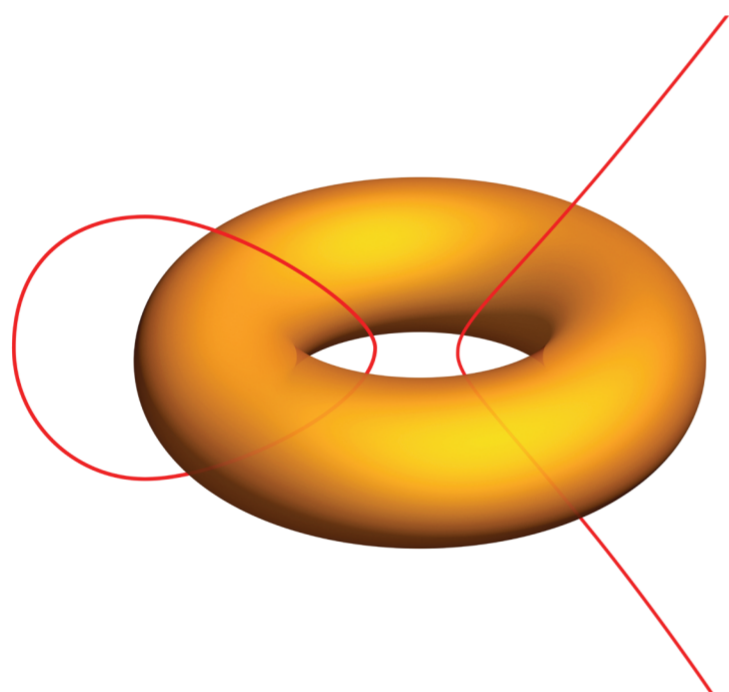
Friday 2 June 2017 at 14:15
Tea & Cookies starting at 13:00

BMS Loft, Urania, An der Urania 17, 10787 Berlin

Sujatha Ramdorai
(U British Columbia)

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Galois representations and Iwasawa theoretic invariants

A central problem in arithmetic is to understand the Galois group of the field of rational numbers. Most of the advances in arithmetic geometry in the last hundred years are related to this theme. Representations of the Galois group provide snapshots of parts of the Galois group.

In her talk, Ramdorai shall explain some aspects of this study related to Iwasawa theory and the invariants that arise therein.

Sujatha Ramdorai is an algebraic number theorist known for her work on Iwasawa theory. She got her PhD from the Tata Institute of Fundamental Research in Mumbai in 1992, and was an Alexander von Humboldt Fellow from 1997 to 1998. Her awards include the Shanti Swarup Bhatnagar Award in 2004 and the Srinivasa Ramanujan Prize in 2006. Ramdorai was a member of the Scientific Advisory Council to the Prime Minister of India from 2009 until 2014, and is currently a professor of mathematics at the University of British Columbia, Canada.

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