

**Determining Modular Forms on
 $SL_2(\mathbb{Z})$ by Central Values of
Convolution L -Functions**

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Time : 4.30 pm – 5.30 pm
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School of Physical and Mathematical Sciences

We show that a cuspidal normalized Hecke eigenform g of level one and even weight is uniquely determined by the central values of the family of Rankin-Selberg L -functions $L(s, f \otimes g)$, where f runs over the Hecke basis of the space of cusp forms of level one and weight k with k varying over an infinite set of even integers. This is a joint work with J. Hoffstein and J. Sengupta.

Speaker Biography

Satadal Ganguly obtained his Ph.D. from Rutgers University in 2006 under the supervision of Henryk Iwaniec. He has held postdoctoral positions at the Institute of Mathematical Sciences in Chennai and the Tata Institute of Fundamental Research in Mumbai. His research interests mainly lie in analytic number theory.

Host: Prof. Zhao Liangyi, Division of Mathematical Sciences, School of Physical and Mathematical Sciences

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