

Joint IAS/PU Number Theory Seminar

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Relative Artin Motives and the Reductive Borel-Serre Compactification of a Locally Symmetric Variety

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Date & Time: Thu, 02/07/2013 - 16:30 - 17:30

Location: Fine Hall 214

Let X be a locally symmetric variety, \bar{X} its Baily-Borel compactification, \bar{X}^{rbs} its reductive Borel-Serre compactification and $p: \bar{X}^{\text{rbs}} \rightarrow \bar{X}$ the canonical map. We prove that the derived direct image sheaf $Rp_* \mathbb{Q}$ is the realization of a canonical motive associated to the variety \bar{X} . This is non trivial since \bar{X}^{rbs} is not an algebraic variety in general. (Joint with S. Zucker)

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Wed, 01/16/2013 - 15:59

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terms:

- [School of Mathematics](#)