

Joint IAS/PU Number Theory Seminar

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Abelian varieties with maximal Galois action on their torsion points

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Date & Time: Thu, 01/24/2013 - 16:30 - 17:30

Location: S-101

Video Link:

<http://video.ias.edu/1213/jointiaspu/0124-DavidZywina>

Abstract: Associated to an abelian variety A/K is a Galois representation which describes the action of the absolute Galois group of K on the torsion points of A . In this talk, we shall describe how large the image of this representation can be (in terms of a number field K and the dimension of A). We achieve this by considering abelian varieties in families and then using a special variant of Hilbert's irreducibility theorem. Some results of Serre on the mod ℓ Galois image will also be reviewed. (This is joint work with David Zureick-Brown)

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Thu, 01/10/2013 - 16:25

Thu, 01/17/2013 - 13:39

terms:

- [School of Mathematics](#)