Abelian varieties & Galois actions

July 25 - 27, 2017

Collegium Minus
Adam Mickiewicz University
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ABSTRACTS

Speaker : Stefan Patrikis

Title : *Compatible families of Galois representations with E6 monodromy*

Abstract : I will explain the construction of the first compatible families of Galois representations having algebraic monodromy group equal to the exceptional group E_6. The technique combines deformations of Galois representations with potential automorphy theorems. The resulting compatible systems moreover appear in the cohomology of (Shimura) varieties. (This is joint work with G. Boxer, F. Calegari, M. Emerton, B. Levin, and K. Madapusi Pera.)