

Torsion in the coherent cohomology of Shimura varieties and Galois representations

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I will explain a method for attaching Galois representations to Hecke eigenforms, possibly torsion, in the coherent cohomology of certain good reduction Shimura varieties. The main tool will be some “generalized Hasse invariants” adapted to the Ekedah–Oort stratification of the special fiber of the Shimura variety.

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