ADRIAN IOVITA, Concordia University

p-Adic Families of de Rham cohomology classes

Together with Fabrizio Andreatta we have constructed p-adic families, parameterized by the weights, of Banach modular sheaves with filtrations, connections and Frobenii which interpolate symmetric powers of the relative de Rham cohomology of the universal elliptic curve over a relevant neighborhood of the ordinary locus in a modular curve of level prime to p. This construction has as application an overconvergent crystalline Eichler-Shimura isomorphism.