

Séminaire de théorie des nombres

Le 23 octobre 2023 à 14h (Jussieu)

Arithmetic Deformation of Line Bundles

Exposé de David Urbanik
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Résumé : We introduce a new method to study mixed characteristic deformations of line bundles. In particular, given a sufficiently large family of smooth projective varieties defined over a ring of integers, we produce an explicit proper closed locus in the base outside of which all line bundles defined on positive characteristic fibres lift to a line bundle on a characteristic zero fibre. Joint work with Ziquan Yang.