

Séminaire de théorie des nombres

Le 03 février 2020 à 14h (PRG)

Unlikely intersections in the moduli space of principally polarized abelian surfaces

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Résumé : The Zilber-Pink conjecture predicts that a family of abelian surfaces over a one-dimensional base, with generic endomorphism ring \mathbb{Z} , contains at most finitely many fibres with quaternionic multiplication. I will discuss a partial proof of this conjecture (joint with Christopher Daw). The main ingredients are new quantitative results in the reduction theory of algebraic groups and a height bound due to André.