

Séminaire de théorie des nombres

Le 27 janvier 2020 à 14h (Jussieu)

Irreducibility and Transversality Criteria

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Résumé : The irreducibility and transversality of a curve are crucial conditions in many theorems in the context of anomalous intersections. However, given a family of curves in E^N for E an elliptic curve, it is not easy to decide whether they are irreducible or transverse. I will present some criteria and some examples. I will also explain how such properties can be used, together with some height bounds, to determine the K -rational points on some families of curves.