Séminaire de théorie des nombres

Le 26 mars 2018 à 14h (Jussieu)

Probabilistic arithmetic geometry

Exposé de Daniel Loughran
(University of Manchester)

Résumé : A famous theorem due to Erdős and Kac states that the number of prime divisors of an integer N behaves like a normal distribution. In this talk we consider analogues of this result in the setting of arithmetic geometry, and obtain probability distributions for questions related to local solubility of algebraic varieties. This is joint work with Efthymios Sofos.