Séminaire de théorie des nombres

Le 8 mars à 14h

Counting extensions of number fields

Exposé de Gunter Malle

Résumé : Given a number field k and a finite group G we are interested in the number $N(k, G, x)$ of Galois extensions of k with group G and norm of the discriminant bounded by x. We present a conjecture on the asymptotic behaviour of this function as x tends to ∞ (in fact even for the case of non-Galois extensions), and give some evidence for it. We will also report on the proof of a weak form of this conjecture in the case of nilpotent groups G and related results.