

Jean-Morlet Chair - Conference
Arithmetic Statistics - Statistiques arithmétiques

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Title: *S_4 -quartics with prescribed norms*

Abstract: Fix a number field k and a finitely generated subgroup A of k^* . We investigate the proportion of S_4 -quartic extensions K/k such that A is contained inside the norm group $N_{K/k}K^*$. This proportion is expressed as an explicit product of local masses at the primes of k , and we will discuss the form that these local masses take.