

Jean-Morlet Chair - Conference
Arithmetic Statistics - Statistiques arithmétiques

Peter KOYMANS, University of Michigan

Title: *Counting nilpotent extensions*

Abstract: Malle conjectured an asymptotic formula for the total count of number fields with a given Galois group and discriminant bounded by X . Even for nilpotent extensions, only very few cases of this conjecture are currently known. We show how equidistribution of Frobenius elements plays an essential role in this problem and how this can be used to make further progress towards Malle's conjecture.

This is joint work with Carlo Pagano.