

ALGEBRAIC GEOMETRY AND COMMUTATIVE ALGEBRA SEMINAR

Speaker: Peter Koymans
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Date: Wednesday, March 22, 2023

Time: 3:00 PM

Location: 258 Hurley Hall

Zoom URL: NA

Lecture Title:

Two-step nilpotent extensions are not anabelian

Abstract

Neukirch proved that a number field is determined, up to isomorphism, by its absolute Galois group (as profinite group). This was later refined by Uchida who showed that one may instead take the Galois group of the maximal solvable extension. In this talk we are interested in the maximal nilpotent extension of class 2, and we will see that a number field is no longer determined by the corresponding Galois group. This is joint work with Carlo Pagano.