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Recent Progress in Bogomolov's Program: A Survey

Thursday, June 26, 2014 5:00 PM (1 hour)

Given a field K, finitely generated and of transcendence degree 2 over the algebraic closure of a prime field, we may now reconstruct K from the maximal 2-step nilpotent pro-ℓ quotient of its absolute Galois group. This allows us to construct a complete (albeit countably infinite) set of geometric obstructions for an element of the Grothendieck-Teichmüller group to come from an element of the absolute Galois group of $\mathbb{Q}$.

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Session Classification: Arithmetic geometry and Galois theory

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