Upstate New York Online Number Theory Colloquium

Time and Date: 12:00 pm EST September 28, 2020

Speaker: Hélène Esnault

Title: Bounding ramification with covers and curves

Abstract: In positive characteristic, there is no curve with the property that its fundamental group covers the one of a given variety X (Lefschetz property). Deligne asked whether over an algebraically closed field there is such a curve which preserves the monodromy groups of $\bar{\mathbb{Q}}_\ell$ local systems in bounded rank and ramification on X. We can not prove this in general, instead we give weaker statements which enable one to tamify local systems.
Joint work with Vasudevan Srinivas.