

Seminar talk: Philippe Gille

Title: Serres conjecture II, a survey

Abstract: Serres conjecture II is a still open vanishing conjecture in non-abelian Galois cohomology. We will present historical developments including techniques from degree 2 and degree 3 splitting of torsors, consequences for  $E_6$  and  $E_7$  and triality  $D_4$  for fields with period = index for 2 and 3-primary torsion, as well with the complete solution for function fields of surfaces. If time permits, we will discuss the case of a discrete valued field based on the recent work of Diego Izquierdo and Lucchini Arteche.

Schedule: March 12, 11:00 a.m.