



1 1
1 0 2
1 0 0 4

Leibniz
Universität
Hannover

Oberseminar

Zahlentheorie und Arithmetische Geometrie

Prof. Dr. Damian Rössler
(University of Oxford)

"The Selmer group of isogenies of rank one"

I will describe the proof of the fact that the Selmer group of an isogeny of height one between abelian varieties over a global function field of positive characteristic can be embedded in the group of homomorphisms between two natural vector bundles on the smooth projective model of the function field. This can be seen as a refinement of a special case of a theorem of Artin–Milne (see Prop. 1.1 in M. Artin and J.S. Milne, *Duality in the flat cohomology of curves*, *Invent. Math.* 35 (1976), 111–129). This result can for instance be applied to the relative Frobenius morphism. I will then describe some arithmetic applications of this result.

Donnerstag, 06.06.2019

ab 12:00 Uhr, a410

Hauptgebäude der Leibniz Universität Hannover

Alle Interessierten sind herzlich eingeladen.

Institut für Algebra, Zahlentheorie
und Diskrete Mathematik