

1155-14-297

Jean-Louis Colliot-Thélène* (jlct@math.u-psud.fr), Orsay, France. *On the integral Tate conjecture for 1-cycles on the product of a curve and a surface over a finite field.* Preliminary report.

Let X be the product of a smooth projective curve C and a smooth projective surface S over a finite field \mathbf{F} . Assume the Chow group of zero-cycles on S is just \mathbf{Z} over any algebraically closed field extension of \mathbf{F} (example : Enriques surface). We give a simple condition on C and S which ensures that the integral ℓ -adic Tate conjecture holds for 1-cycles on X . An equivalent formulation is a vanishing result for unramified cohomology of degree 3. This generalizes a result of A. Pirutka (2016).

It is a joint work with Federico Scavia (UBC, Vancouver). (Received January 17, 2020)