Hélène Esnault

List of publications.

Thèse de Doctorat de 3\textsuperscript{e} cycle:
Singularités rationnelles et groupes algébriques. Université Paris VII, October 1976

Thèse de Doctorat d’Etat:
corresponds to the publications 3 - 6, Université Paris VII, Feb. 1984

Publications:

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Details</th>
</tr>
</thead>
</table>


[65] (with S. Bloch) Congruences for the number of rational points, Hodge type and motivic conjectures for Fano varieties. Cubo A Mathematical Journal, 05, no 03 (2003), 251-262.
A remark on higher congruences for the number of rational points of varieties defined over a finite field. Preprint 2005, 6 pages.


(with C. Xu) Congruence for rational points over finite fields and coniveau over local fields. *Transactions of the AMS* 361 (2009), 2679-2688.

(with M. Levine) Tate motives and fundamental group. Preprint 2007, 65 pages.


(with O. Wittenberg) Remarks on the cycle classes of sections of the arithmetic fundamental group. *Moscow Mathematical Journal* 9 no3 (2009), 1-17.


(with V. Mehta) Simply connected projective manifolds in characteristic p > 0 have no nontrivial stratified bundles. *Inventiones math.* 181 (2010), 449–465.


On flat bundles in characteristic 0 and $p > 0$. European Congress of Mathematics, Kraków, 2-7 July, 2012, European Mathematical Society, 301–313.


(With S. Bloch and M. Kerz) Deformation of algebraic cycle classes in characteristic 0. Algebraic Geometry **3** (2014), 290–310.


(w) (with M. Kerz) Étale cohomology of rank one \(\ell\)-adic local systems in positive characteristic. *Selecta Mathematica* 27 (2021) no 4, paper no 58, 25 pages.


(w) (with M. Kerz) Density of Arithmetic Representations of Function Fields. *Épijournal de Géométrie Algébrique* 6 (2022), article no. 5.

Small report on some of the contributions of Steve Zucker documented in 4 articles on Hodge theory, preprint 2020, 3 pages, meant to be inserted in a *Memorial Tribute to Steve Zucker in the AMS Notices*, edited by David Cox and Michael Harris.

(w) (with V. Srinivas) Bounding ramification by covers and curves, in *Nine mathematical challenges*, *Proceedings of Symposia in Pure Math, AMS* 104 (2021), 31–43.


(w) (with V. Srinivas and J. Stix) An obstruction to lifting to characteristic 0. *Algebraic Geometry* 10 (2023) no 3, 327–347.


