

PUBLICATION LIST

MARTIN OLSSON

Most of these are available on the page <http://math.berkeley.edu/~molsson>.

1. PUBLISHED PAPERS AND BOOKS

- (1) *Logarithmic geometry and algebraic stacks*, Ann. Sci. d'ENS **36** (2003), 747–791.
- (2) *Universal log structures on semi-stable varieties*, Tohoku Math Journal **55** (2003) 397–438.
- (3) *Semi-stable degenerations and period spaces for polarized K3 surfaces*, Duke Math. J. **125** (2004), 121–203.
- (4) With J. Starr, *Quot functors for Deligne-Mumford stacks*, Special volume in honor of S. Kleiman’s 60th birthday, Comm. Alg. **31** (2003) 4069–4096.
- (5) *A stacky semi-stable reduction theorem*, Int. Math. Res. Not. **29** (2004), 1497–1509.
- (6) With K. Matsuki, *Kawamata-Viehweg vanishing as Kodaira vanishing for stacks*, Math. Res. Letters **12** 207–217 (2005).
- (7) *Deformation theory of representable morphisms of algebraic stacks*, Math. Z. 253 (2006), 25–62.
- (8) *The logarithmic cotangent complex*, Math. Ann. 333 (2005), 859–931.
- (9) *On proper coverings of Artin stacks*, Adv. Math. 198 (2005), 93–106.
- (10) *Sheaves on Artin stacks*, J. Reine Angew. Math. (Crelle’s Journal) 603 (2007), 55–112.
- (11) *F-isocrystals and homotopy types*, J. Pure and Applied Algebra 210 (2007), 591–638
- (12) With D. Abramovich, T. Graber, and H.-H. Tseng, *On the global quotient structure of the space of twisted stable maps to a quotient stack*, J. Algebraic Geometry 16 (2007), 731–751.
- (13) *On (log) twisted curves*, (20 pages), Comp. Math. 143 (2007), 476–494.

Date: May 30, 2018.

- (14) *Hom-stacks and restriction of scalars*, Duke Math. J. **134** (2006), 139–164.
- (15) *Towards non-abelian P -adic Hodge theory in the good reduction case*, Memoirs of the AMS **210**, no. 990 (2011).
- (16) *Crystalline cohomology of algebraic stacks and Hyodo-Kato cohomology*, Astérisque **316**, 412 pp. (2008).
- (17) *On Faltings’ method of almost étale extensions. Algebraic geometry—Seattle 2005, Part 2*, 811–936, Proc. Sympos. Pure Math. **80**, Part 2, Amer. Math. Soc., Providence, RI, 2009.
- (18) With Y. Laszlo, *The six operations for sheaves on Artin stacks I: finite coefficients*, Publ. Math. IHES **107** (2008), 109–168.
- (19) With Y. Laszlo, *The six operations for sheaves on Artin stacks II: adic coefficients*, Publ. Math. IHES **107** (2008), 169–210.
- (20) With Y. Laszlo, *Perverse t -structure on Artin stacks*, Math. Zeit. **261** (2009), 737–748.
- (21) With D. Abramovich and A. Vistoli, *Tame stacks in positive characteristic*, Annales de l’Institut Fourier **58** (2008), 1057–1091.
- (22) With M. Lieblich, *Generators and relations for the étale fundamental group*, Pure and Applied Math Quarterly (special volume in honor of J. Tate) **6** (2010), 209–244.
- (23) *A boundedness theorem for Hom-stacks*, Mathematical Research Letters **14** (2007), 1009–1021.
- (24) *Compactifying moduli spaces for abelian varieties*, Springer Lecture Notes in Math. **1958**, viii+278 pp. (2008).
- (25) *Logarithmic interpretation of the main component in toric Hilbert schemes*, Curves and abelian varieties, 231–252, Contemp. Math., 465, Amer. Math. Soc., Providence, RI, 2008.
- (26) With W. Fulton, *The Picard group of $\mathcal{M}_{1,1}$* , Algebra and Number Theory **4** (2010), 87–104.
- (27) With D. Abramovich and A. Vistoli, *Twisted stable maps to tame Artin stacks*, J. Algebraic Geometry **20** (2011), 399–477.
- (28) With B. Conrad and M. Lieblich, *Nagata compactification for algebraic spaces*, Journal of the Institute of Mathematics of Jussieu **11** (2012), 747–814.
- (29) *Integral models for moduli spaces of G -torsors*, Annales de l’institut Fourier **62** (2012), 1483–1549.
- (30) *Compactifications of moduli of abelian varieties: An introduction*, Current developments in algebraic geometry, 295–348, Math. Sci. Res. Inst. Publ. **59**, Cambridge Univ. Press, Cambridge, 2012.

- (31) With D. Abramovich, Q. Chen, D. Gillam, Y. Huang, M. Satriano, and S. Sun, *Logarithmic geometry and moduli*, Handbook of moduli. Vol. I, 1–61, Adv. Lect. Math. (ALM), 24, Int. Press, Somerville, MA, 2013.
- (32) *Fujiwara’s theorem for equivariant correspondences*, Journal of Algebraic Geometry **24** (2015), 401–497.
- (33) With M. Lieblich, *Fourier-Mukai partners of K3-surfaces in positive characteristic*, Ann. Sci. Éc. Norm. Supér. (4) **48** (2015), no. 5, 1001–1033.
- (34) *The bar construction and affine stacks*, Comm. Algebra **44** (2016), no. 7, 3088–3121.
- (35) *Moduli of spherical varieties and log geometry*, Algebr. Geom. **2** (2015), no. 5, 591–622.
- (36) *Borel-Moore homology, Riemann-Roch transformations, and local terms*, Advances in Math. **273** (2015), 56–123.
- (37) *Motivic cohomology, localized Chern classes, and local terms*, Manuscripta Math. **149** (2016), 1–43.
- (38) *Independence of ℓ and traces on cohomology*, Proc. National Academy of Sciences **113** (2016), 5185–5188.
- (39) With M. Lieblich, *A stronger derived Torelli theorem for K3 surfaces*, In: Bogomolov F., Hassett B., Tschinkel Y. (eds) Geometry Over Nonclosed Fields. Simons Symposia. Springer (2017).
- (40) *Algebraic spaces and stacks*, AMS Colloquium Publications **62** (2016), 298 pp.

2. PREPRINTS

- *A geometric construction of semistable extensions of crystalline representations*, submitted.
- *Kummer coverings and specialization*, submitted.
- With B. Bhatt and O. Gabber, *Finiteness of étale fundamental groups by reduction modulo p* , preprint.
- *Hochschild homology for log schemes*, preprint.
- *ℓ -derived schemes and local terms*, preprint.
- *Compatible systems and correspondences*, preprint.