

Benjamin Hennion

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Curriculum Vitae

Education

- 2006 to 2011 **Undergrads** *Admitted at ENS de Lyon, Bachelor degree in Mathematics (2009), then Master degree in fundamental Mathematics (2011, Paris 6).*
- 2011 to 2015 **PhD, under the supervision of Bertrand Toën** *Defended in June, 12th 2015* I3M/IMAG, Université de Montpellier, France.

Position

- 2015-2017 **Postdoc position** *at the Max Planck Institute für Mathematik, Bonn.*
- 2017- now **Assistant professor (Maître de conférence)** *at the Laboratoire de Mathématiques d'Orsay, Université Paris-Saclay*
- 2024-2029 **Junior Member of the Institut Universitaire de France**

Publications

- 2018 **Tangent Lie algebra of derived Artin stacks** *Journal für die reine und angewandte Mathematik (Crelles). Vol. 2018, Issue 741, pp 1–46.*
- 2017 **Higher dimensional formal loop spaces** *Annales Scientifiques de l'ENS, vol. 50 (4) (2017), pp 609–663.*
- 2017 **Tate objects in stable $(\infty, 1)$ -categories** *Homology, Homotopy and Applications, vol. 19 (2017), no. 2, pp. 373–395.*
- 2019 **Higher Kac-Moody algebras and moduli spaces of G -bundles** (joint with G. Faonte and M. Kapranov). *Adv. Math.* 346 (2019), pp. 389–466.
- 2021 **The tangent complex of K-theory** *J. de l'École Polytechnique.* 8 (2021). pp. 895-932.
- 2023 **Gelfand-Fuchs cohomology in algebraic geometry and factorization algebras** (joint with M. Kapranov). *J. Amer. Math. Soc.*, vol. 36 (2023), no. 2, pp. 311-396.

Prepublications

- 2022 **A flag version of Beilinson-Drinfeld Grassmannian for surfaces** (joint with V. Melani and G. Vezzosi), [arXiv:2210.04798](https://arxiv.org/abs/2210.04798).
- 2024 **Gluing invariants of Donaldson–Thomas type – Part I: the Darboux stack** (joint with J. Holstein and M. Robalo.), [arXiv:2407.08471](https://arxiv.org/abs/2407.08471).

Other documents

- 2016 **Formal glueing for non-linear flags** (joint with Mauro Porta and Gabriele Vezzosi), [arXiv:1607.04503](https://arxiv.org/abs/1607.04503).