

ANDREI CĂLDĂRARU

LIST OF PUBLICATIONS

1. On the cohomology of the Bridgeland differential

(with Dima Arinkin), in preparation

2. The Barannikov-Kontsevich theorem as a derived intersection problem

(with Dima Arinkin and Márton Hablicsek), in preparation

3. Formality of derived intersections and the orbifold HKR isomorphism

(with Dima Arinkin and Márton Hablicsek), submitted, (arXiv:1412.5233), 23pp

4. The Hodge theorem as a derived self-intersection

(with Dima Arinkin and Márton Hablicsek), submitted, (arXiv:1311.2629), 36pp

5. On the Lie algebroid of a derived self-intersection

(with Damien Calaque and Junwu Tu)

Advances in Mathematics (2014), 751-783, (arXiv:1306.5260)

6. Curved A-infinity algebras and Landau-Ginzburg models

(with Junwu Tu)

New York J. Math. 19 (2013), 305-342 (arXiv:1007.2679)

7. PBW for an inclusion of Lie algebras

(with Damien Calaque and Junwu Tu)

J. Algebra 378 (2013), 64-79 (arXiv:1010.0985)

8. When is the self-intersection of a subvariety a fibration?

(with Dima Arinkin), Adv. in Math., 231 (2012), no. 2, 815-842 (arXiv:1007:1671)

9. Non-birational twisted derived equivalences in abelian GLSMs

(with Jacques Distler, Simeon Hellerman, Tony Pantev and Eric Sharpe)

Communications in Mathematical Physics 294 (2010), no. 3, 605-645 (arXiv:0709.3855)

10. The Mukai pairing, I: a categorical approach

(with Simon Willerton)

New York J. of Math., no. 16 (2010), 61-98 (arXiv:0707.2052)

11. The Pfaffian-Grassmannian derived equivalence

(with Lev Borisov)

J. Algebraic Geom. 18 (2009) 201-222 (math.AG/0608404)

12. Non-birational Calabi-Yau threefolds that are derived equivalent

Internat. J. Math. 18 (2007), No. 5, 491-504 (math.AG/0601232)

13. Derived categories: a skimming

Snowbird Lectures in Algebraic Geometry, Contemporary Mathematics no. 388 (2005), 43-75

(math.AG/0501094)

14. The Mukai pairing, II: the Hochschild-Kostant-Rosenberg isomorphism

Adv. in Math., 194 (2005), no. 1, 34-66 (math.AG/0308080)

15. The Mukai pairing, I: the Hochschild structure

preprint math.AG/0308079, superseded by arXiv:0707.2052

16. Algebraic deformations arising from orbifolds with discrete torsion

(with Anthony Giaquinto, Sarah Witherspoon)

J. Pure Appl. Algebra, **187** (2004), no. 1-3, 51-70 (math.KT/0210027)

17. D-Branes, B-fields, and Ext groups

(with Sheldon Katz, Eric Sharpe)

Adv. Theor. Math. Phys., **7** (2003), no. 3, 381-404 (hep-th/0302099)

18. Fiberwise stable bundles on elliptic fibrations with relative Picard number one

CR Acad. Sci. Paris Ser. I, **334** (2002), no. 6, 469-472 (math.AG/0601234)

19. Non-fine moduli spaces of sheaves on K3 surfaces

Internat. Math. Res. Notices **2002** (2002), no. 20, 1027-1056 (math.AG/0108180)

20. Derived categories of twisted sheaves on elliptic threefolds

J. reine angew. Math. (Crelle's Journal) **544** (2002), 161-179 (math.AG/0012083)

21. Derived categories of twisted sheaves on Calabi-Yau manifolds

Ph.D. thesis, Cornell University, (2000)

PUBLICATIONS OF MY PH.D. STUDENTS, WRITTEN UNDER MY SUPERVISION

1. Nicolas Addington, Spinor sheaves on singular quadrics., Proc. Amer. Math. Soc. **139** (2011) no. 11, 3867–3879

2. Nicolas Addington, The derived category of the intersection of four quadrics, arXiv:0904.1764

3. Junwu Tu, Matrix factorizations via Koszul duality, arXiv:1009.4151