

ANDREI CĂLDĂRARU

LIST OF PUBLICATIONS

1. On the cohomology of the Bridgeland differential

(with Dima Arinkin), in preparation

2. An HKR decomposition for Azumaya orbifolds,

(with Dima Arinkin), in preparation

3. Higher genus categorical Gromov-Witten invariants

(with Junwu Tu), submitted, (arXiv:1706.09912), 44pp

4. On intersections of two Grassmannians in \mathbf{P}^9

(with Lev Borisov and Alex Perry), submitted, (arXiv:1707.00534), 28pp

5. GLSM realizations of maps and intersections of Grassmannians and Pfaffians

(with Johanna Knapp and Eric Sharpe), accepted pending revisions, J. High Energy Physics

6. Formality of derived intersections and the orbifold HKR isomorphism

(with Dima Arinkin and Márton Hablicsek), to appear, J. Algebra, (arXiv:1412.5233), 23pp

7. The Hodge theorem as a derived self-intersection

(with Dima Arinkin and Márton Hablicsek)

Algebraic Geometry 4 (2017), 394-423

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

(with Damien Calaque and Junwu Tu), Adv. in Math. 262 (2014), 751-783

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

(with Junwu Tu), New York J. Math. 19 (2013), 305-342

10. PBW for an inclusion of Lie algebras

(with Damien Calaque and Junwu Tu), J. Algebra 378 (2013), 64-79

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

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

12. 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

13. The Mukai pairing, I: a categorical approach

(with Simon Willerton), New York J. of Math., no. 16 (2010), 61-98

14. The Pfaffian-Grassmannian derived equivalence

(with Lev Borisov), J. Algebraic Geom. 18 (2009) 201-222

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

Internat. J. Math. 18 (2007), No. 5, 491-504

16. Derived categories: a skimming

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

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

Adv. in Math., 194 (2005), no. 1, 34-66

18. The Mukai pairing, I: the Hochschild structure

preprint math.AG/0308079, superseded by paper 12. above

19. Algebraic deformations arising from orbifolds with discrete torsion

(with Anthony Giaquinto, Sarah Witherspoon)

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

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

(with Sheldon Katz, Eric Sharpe), Adv. Theor. Math. Phys., 7 (2003), no. 3, 381-404

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

CR Acad. Sci. Paris Ser. I, 334 (2002), no. 6, 469-472

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

Internat. Math. Res. Notices 2002 (2002), no. 20, 1027-1056

23. Derived categories of twisted sheaves on elliptic threefolds

J. reine angew. Math. (Crelle's Journal) 544 (2002), 161-179

24. 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