

ANDREI CĂLDĂRARU

LIST OF PUBLICATIONS

- 1. On the foundations of categorical enumerative invariants**
(with Junwu Tu), 77pp, final revisions
- 2. Effective algorithms for enumerating ribbon graphs**
to be submitted to SIAGA
- 3. The $g=2$ categorical Gromov-Witten invariants of elliptic curves**
(with Weng-Him Cheung and Yunfan He), in preparation
- 4. On the cohomology of the Bridgeland differential**
(with Dima Arinkin), in preparation
- 5. An HKR decomposition for Azumaya orbifolds**
(with Dima Arinkin), in preparation
- 6. Moonshine at Landau-Ginzburg points**
(with Yunfan He and Shengyuan Huang), submitted, (arXiv:2107.12405), 7pp
- 7. The cup product in orbifold Hochschild cohomology**
(with Shengyuan Huang), submitted (arXiv:2101.06276), 33pp
- 8. Categorical enumerative invariants, I: string vertices**
(with Kevin Costello and Junwu Tu), submitted, (arXiv:2009.06673), 35pp
- 9. Categorical enumerative invariants, II: Givental formula**
(with Junwu Tu), submitted, (arXiv:2009.06659), 55pp
- 10. Categorical primitive forms and Gromov-Witten invariants of A_n singularities**
(with Si Li and Junwu Tu), Internat. Math. Res. Notices, rnz315 (2019)
- 11. Computing a categorical Gromov-Witten invariant**
(with Junwu Tu), Compos. Math. 156 (2020), no. 7, 1275-1309
- 12. On intersections of two Grassmannians in P^9**
(with Lev Borisov and Alex Perry), J. reine angew. Math., doi:10.1515/crelle-2018-0014
- 13. GLSM realizations of maps and intersections of Grassmannians and Pfaffians**
(with Johanna Knapp and Eric Sharpe), J. High Energ. Phys. (2018) 2018: 119
- 14. Formality of derived intersections and the orbifold HKR isomorphism**
(with Dima Arinkin and Márton Hablicsek), J. Algebra (2019), (arXiv:1412.5233), 23pp
- 15. The Hodge theorem as a derived self-intersection**
(with Dima Arinkin and Márton Hablicsek) Algebraic Geometry 4 (2017), 394-423
- 16. On the Lie algebroid of a derived self-intersection**
(with Damien Calaque and Junwu Tu), Adv. in Math. 262 (2014), 751-783
- 17. Curved A_∞ algebras and Landau-Ginzburg models**
(with Junwu Tu), New York J. Math. 19 (2013), 305-342

18. PBW for an inclusion of Lie algebras

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

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

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

20. 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

21. The Mukai pairing, I: a categorical approach

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

22. The Pfaffian-Grassmannian derived equivalence

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

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

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

24. Derived categories: a skimming

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

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

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

26. The Mukai pairing, I: the Hochschild structure

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

27. Algebraic deformations arising from orbifolds with discrete torsion

(with Anthony Giaquinto, Sarah Witherspoon)

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

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

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

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

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

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

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

31. Derived categories of twisted sheaves on elliptic threefolds

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

32. 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. **Weng-Him Cheung**, **Constructing the topological field theory associated to a cyclic A_∞ algebra**, preprint

1. **Shengyuan Huang**, **Functoriality of HKR isomorphisms**, preprint, arXiv:2002.00017

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

3. **Nicolas Addington**, **The Derived Category of the Intersection of Four Quadrics**, preprint arXiv:0904.1764

4. **Junwu Tu**, **Matrix factorizations via Koszul duality**, preprint arXiv:1009.4151