

# ANDREI CĂLDĂRARU

## LIST OF PUBLICATIONS

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- 1. Effective algorithms for enumerating ribbon graphs**  
to be submitted to SIAGA
- 2. The  $g=2$  categorical Gromov-Witten invariants of elliptic curves**  
(with Weng-Him Cheung), in preparation
- 3. On the cohomology of the Bridgeland differential**  
(with Dima Arinkin), in preparation
- 4. An HKR decomposition for Azumaya orbifolds**  
(with Dima Arinkin), in preparation
- 5. Moonshine at Landau-Ginzburg points**  
(with Yunfan He and Shengyuan Huang), submitted, (arXiv:2107.12405), 7pp
- 6. The cup product in orbifold Hochschild cohomology**  
(with Shengyuan Huang), submitted (arXiv:2101.06276), 33pp
- 7. Categorical enumerative invariants, I: string vertices**  
(with Kevin Costello and Junwu Tu), submitted, (arXiv:2009.06673), 35pp
- 8. Categorical enumerative invariants, II: Givental formula**  
(with Junwu Tu), submitted, (arXiv:2009.06659), 55pp
- 9. Categorical primitive forms and Gromov-Witten invariants of  $A_n$  singularities**  
(with Si Li and Junwu Tu), Internat. Math. Res. Notices, rnz315 (2019)
- 10. Computing a categorical Gromov-Witten invariant**  
(with Junwu Tu), Compos. Math. 156 (2020), no. 7, 1275-1309
- 11. On intersections of two Grassmannians in  $P^9$**   
(with Lev Borisov and Alex Perry), J. reine angew. Math., doi:10.1515/crelle-2018-0014
- 12. GLSM realizations of maps and intersections of Grassmannians and Pfaffians**  
(with Johanna Knapp and Eric Sharpe), J. High Energ. Phys. (2018) 2018: 119
- 13. Formality of derived intersections and the orbifold HKR isomorphism**  
(with Dima Arinkin and Márton Hablicsek), J. Algebra (2019), (arXiv:1412.5233), 23pp
- 14. The Hodge theorem as a derived self-intersection**  
(with Dima Arinkin and Márton Hablicsek) Algebraic Geometry 4 (2017), 394-423
- 15. On the Lie algebroid of a derived self-intersection**  
(with Damien Calaque and Junwu Tu), Adv. in Math. 262 (2014), 751-783
- 16. Curved A-infinity algebras and Landau-Ginzburg models**  
(with Junwu Tu), New York J. Math. 19 (2013), 305-342
- 17. PBW for an inclusion of Lie algebras**  
(with Damien Calaque and Junwu Tu), J. Algebra 378 (2013), 64-79

- 18. When is the self-intersection of a subvariety a fibration?**  
(with Dima Arinkin), Adv. in Math., 231 (2012), no. 2, 815-842
- 19. 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
- 20. The Mukai pairing, I: a categorical approach**  
(with Simon Willerton), New York J. of Math., no. 16 (2010), 61-98
- 21. The Pfaffian-Grassmannian derived equivalence**  
(with Lev Borisov), J. Algebraic Geom. 18 (2009) 201-222
- 22. Non-birational Calabi-Yau threefolds that are derived equivalent**  
Internat. J. Math. 18 (2007), No. 5, 491-504
- 23. Derived categories: a skimming**  
Snowbird Lectures in Algebraic Geometry, Contemporary Mathematics no. 388 (2005), 43-75
- 24. The Mukai pairing, II: the Hochschild-Kostant-Rosenberg isomorphism**  
Adv. in Math., 194 (2005), no. 1, 34-66
- 25. The Mukai pairing, I: the Hochschild structure**  
preprint math.AG/0308079, superseded by paper 12. above
- 26. Algebraic deformations arising from orbifolds with discrete torsion**  
(with Anthony Giaquinto, Sarah Witherspoon)  
J. Pure Appl. Algebra, **187** (2004), no. 1-3, 51-70
- 27. D-Branes, B-fields, and Ext groups**  
(with Sheldon Katz, Eric Sharpe), Adv. Theor. Math. Phys., 7 (2003), no. 3, 381-404
- 28. Fiberwise stable bundles on elliptic fibrations with relative Picard number one**  
CR Acad. Sci. Paris Ser. I, 334 (2002), no. 6, 469-472
- 29. Non-fine moduli spaces of sheaves on  $K3$  surfaces**  
Internat. Math. Res. Notices 2002 (2002), no. 20, 1027-1056
- 30. Derived categories of twisted sheaves on elliptic threefolds**  
J. reine angew. Math. (Crelle's Journal) 544 (2002), 161-179
- 31. Derived categories of twisted sheaves on Calabi-Yau manifolds**  
Ph.D. thesis, Cornell University, (2000)

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

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- 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**