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## Ludmil Katzarkov - Publications

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### On the derived categories of degree $d$ hypersurface fibrations

Ballard, M., Deliu, D., Favero, D., Isik, M. U. & [Katzarkov, L.](#) Feb 1 2018 (Accepted/In press) In : [Mathematische Annalen](#). p. 1-34 34 p.

### Tropical Homology

Itenberg, I., [Katzarkov, L.](#), Mikhalkin, G. & Zharkov, I. May 26 2018 (Accepted/In press) In : [Mathematische Annalen](#). p. 1-44 44 p.

### Bogomolov-Tian-Todorov theorems for Landau-Ginzburg models

[Katzarkov, L.](#), Kontsevich, M. & Pantev, T. Jan 1 2017 In : [Journal of Differential Geometry](#). 105, 1, p. 55-117 63 p.

### Constructing buildings and harmonic maps

[Katzarkov, L.](#), Noll, A., Pandit, P. & Simpson, C. 2017 *Progress in Mathematics*. [Springer Basel](#), Vol. 324, p. 203-260 58 p.(Progress in Mathematics; vol. 324)

### Flat surfaces and stability structures

Haiden, F., [Katzarkov, L.](#) & Kontsevich, M. Nov 1 2017 In : [Publications Mathématiques de l'Institut des Hautes Etudes Scientifiques](#). 126, 1, p. 247-318 72 p.

### Homological projective duality via variation of geometric invariant theory quotients

Ballard, M., Deliu, D., Favero, D., Isik, M. U. & [Katzarkov, L.](#) 2017 In : [Journal of the European Mathematical Society](#). 19, 4, p. 1127-1158 32 p.

### Towards mirror symmetry for varieties of general type

Gross, M., [Katzarkov, L.](#) & Ruddat, H. Feb 21 2017 In : [Advances in Mathematics](#). 308, p. 208-275 68 p.

### [Bridgeland stability conditions on the acyclic triangular quiver](#)

Dimitrov, G. & [Katzarkov, L.](#) Jan 22 2016 In : [Advances in Mathematics.](#) 288, p. 825-886 62 p.

### [Lagrangian fibrations on blowups of toric varieties and mirror symmetry for hypersurfaces](#)

Abouzaid, M., Auroux, D. & [Katzarkov, L.](#) Mar 2 2016 (Accepted/In press) In : [Publications Mathematiques de l'Institut des Hautes Etudes Scientifiques.](#) p. 1-84 84 p.

### [Non-semistable Exceptional Objects in Hereditary Categories](#)

Dimitrov, G. & [Katzarkov, L.](#) 2016 In : [International Mathematics Research Notices.](#) 2016, 20, p. 6293-6377 85 p.

### [Resolutions in factorization categories](#)

Ballard, M., Deliu, D., Favero, D., Isik, M. U. & [Katzarkov, L.](#) Jun 4 2016 In : [Advances in Mathematics.](#) 295, p. 195-249 55 p.

### [Symplectomorphism group relations and degenerations of Landau-Ginzburg models](#)

Diemer, C., [Katzarkov, L.](#) & Kerr, G. 2016 In : [Journal of the European Mathematical Society.](#) 18, 10, p. 2167-2171 5 p.

### [Derived categories of Keum's fake projective planes](#)

Galkin, S., [Katzarkov, L.](#), Mellit, A. & Shinder, E. Jun 5 2015 In : [Advances in Mathematics.](#) 278, p. 238-253 16 p.

### [Determinantal Barlow surfaces and phantom categories](#)

Böhning, C., Graf Von Bothmer, H. C., [Katzarkov, L.](#) & Sosna, P. 2015 In : [Journal of the European Mathematical Society.](#) 17, 7, p. 1569-1592 24 p.

### [Harmonic Maps to Buildings and Singular Perturbation Theory](#)

[Katzarkov, L.](#), Noll, A., Pandit, P. & Simpson, C. 2015 In : [Communications in Mathematical Physics.](#) 336, 2, p. 853-903 51 p.

### [The mori program and non-fano toric homological mirror symmetry](#)

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### [A category of kernels for equivariant factorizations, II: Further implications](#)

Ballard, M., Favero, D. & [Katzarkov, L.](#) Oct 1 2014 In : [Journal des Mathematiques Pures et Appliquees](#). 102, 4, p. 702-75756 p.

### [Double solids, categories and non-rationality](#)

Iliev, A., [Katzarkov, L.](#) & Przyjalkowski, V. 2014 In : [Proceedings of the Edinburgh Mathematical Society](#). 57, 1, p. 145-17329 p.

### [On the Griffiths groups of Fano manifolds of Calabi-Yau Hodge type](#)

Favero, D., Iliev, A. & [Katzarkov, L.](#) 2014 In : [Pure and Applied Mathematics Quarterly](#). 10, 1, p. 1-55 55 p.

### [A category of kernels for equivariant factorizations and its implications for hodge theory](#)

Ballard, M., Favero, D. & [Katzarkov, L.](#) 2013 In : [Publications Mathematiques de l'Institut des Hautes Etudes Scientifiques](#). 120, 1

### [Birational geometry via moduli spaces](#)

Cheltsov, I., [Katzarkov, L.](#) & Przyjalkowski, V. Jan 1 2013 *Birational Geometry, Rational Curves, and Arithmetic*. [Springer New York](#), p. 93-132 40 p.

### [Compactifications of spaces of landau-ginzburg models](#)

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### [Homological mirror symmetry for punctured spheres](#)

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### [Orlov spectra as a filtered cohomology theory](#)

[Katzarkov, L.](#) & Kerr, G. Aug 2013 In : [Advances in Mathematics](#). 243, p. 232-261 30 p.

### [Foreword by the editors](#)

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### [Linear Shafarevich conjecture](#)

Eyssidieux, P., [Katzarkov, L.](#), Pantev, T. & Ramachandran, M. 2012 In : [Annals of Mathematics](#). 176, 3, p. 1545-1581 37 p.

### [Orlov spectra: Bounds and gaps](#)

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### [Strings, gauge fields, and the geometry behind: The legacy of maximilian kreuzer](#)

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### [Editorial Material](#)

[Katzarkov, L.](#), Pantev, T., Tschinkel, Y. & Zarhin, Y. Oct 2011 In : [Central European Journal of Mathematics](#). 9, 5, p. 935 1 p.

### [Erratum: Super Landau-Ginzburg mirrors and algebraic cycles \(Journal of High Energy Physics \(2011\) \(017\)\)](#)

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[Katzarkov, L.](#), Pantev, T. & Toën, B. May 2009 In : [Compositio Mathematica](#). 145, 3, p. 633-686 54 p.

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### [Homological mirror symmetry and algebraic cycles](#)

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### [Homological mirror symmetry and algebraic cycles](#)

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### [Homological Mirror Symmetry for manifolds of general type](#)

Kapustin, A., [Katzarkov, L.](#), Orlov, D. & Yotov, M. Dec 2009 In : [Central European Journal of Mathematics](#). 7, 4, p. 571-60535 p.

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### [Singular Lefschetz pencils](#)

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### [Representations of fundamental groups whose Higgs bundles are pullbacks](#)

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