

# Vasily Dolgushev's Publications

## • In Preparation:

1. V.A. Dolgushev and A.A. Lorenz, On the profinite completion of a groupoid.
2. V. A. Dolgushev, The action of GT-shadows on child's drawings.

## • Preprints:

1. V.A. Dolgushev, K.Q. Le and A. Lorenz, What are GT-shadows? <https://arxiv.org/abs/2008.00066>
2. V.A. Dolgushev, Erratum to: "A Proof of Tsygan's Formality Conjecture for an Arbitrary Smooth Manifold", Preprint, arXiv:math/0703113.

## • Accepted or Published:

1. V.A. Dolgushev, Stable formality quasi-isomorphisms for Hochschild cochains, to appear in *Mémoires de la SMF*; arXiv:1109.6031.
2. V.A. Dolgushev and C.L. Rogers, The cohomology of the full directed graph complex, *Algebr. Represent. Theory* **23**, 3 (2020) 917–961; arXiv:1711.04701.
3. E. Altınay-Ozaslan and V.A. Dolgushev, Towards deformation quantization over a  $\mathbb{Z}$ -graded base, *J. Noncommut. Geom.* **13**, 1 (2019) 227–256.; arXiv:1702.06930.
4. V.A. Dolgushev and G.E. Schneider, When can a formality quasi-isomorphism over  $\mathbb{Q}$  be constructed recursively? *J. Pure Appl. Algebra* **223**, 5 (2019) 2145–2172; arXiv:1610.04879.
5. V.A. Dolgushev, A Formality quasi-isomorphism for Hochschild cochains over rationals can be constructed recursively, *Int. Math. Res. Not.* **18** (2018) 5729–5785; arXiv:1306.6733.
6. V.A. Dolgushev and T.H. Willwacher, A direct computation of the cohomology of the braces operad, *Forum Mathematicum* **29**, 2 (2017) 465–488; arXiv:1411.1685.
7. V.A. Dolgushev and C.L. Rogers, On an enhancement of the category of shifted  $L_\infty$  algebras, *Appl. Categ. Structures* **25**, 4 (2017) 489–503; arXiv:1406.1744.
8. V.A. Dolgushev and B. Paljug, Tamarkin's construction is equivariant with respect to the action of the Grothendieck-Teichmüller group, *J. Homotopy Relat. Struct.* **11**, 3 (2016) 503–552; arXiv:1402.7356.
9. V.A. Dolgushev, C.L. Rogers, and T.H. Willwacher, Kontsevich's graph complex, GRT, and the deformation complex of the sheaf of polyvector fields, *Ann. of Math. (2)* **182**, 3 (2015) 855–943; arXiv:1211.4230.
10. V.A. Dolgushev, A.E. Hoffnung, and C.L. Rogers, What do homotopy algebras form? *Adv. Math.* **274** (2015) 562–605; arXiv:1406.1751.
11. V.A. Dolgushev and C.L. Rogers, A Version of the Goldman-Millson theorem for filtered  $L_\infty$  algebras, *J. Algebra* **430** (2015) 260–302; arXiv:1407.6735.
12. V.A. Dolgushev and T. H. Willwacher, Operadic twisting – with an application to Deligne's conjecture, *J. Pure Appl. Algebra* **219**, 5 (2015) 1349–1428; arXiv:1207.2180.

13. V.A. Dolgushev and T.H. Willwacher, The Deformation complex is a homotopy invariant of a homotopy algebra, in *Developments and Retrospectives in Lie Theory*, 137–158, *Developments in Math.* **38**, Springer 2014; arXiv:1305.4165.
14. V. A. Dolgushev, Exhausting formal quantization procedures, *Geometric Methods in Physics, XXX Workshop, 2011*, *Trends in Mathematics*, 53–62, Birkhäuser, Basel 2013; arXiv:1111.2797.
15. V.A. Dolgushev and C.L. Rogers, Notes on algebraic operads, graph complexes, and Willwacher’s construction. *Mathematical aspects of quantization*, 25–145, *Contemp. Math.*, **583**, Amer. Math. Soc., Providence, RI, 2012; arXiv:1202.2937.
16. V.A. Dolgushev, Formality theorem for Hochschild cochains via transfer, *Lett. Math. Phys.* **97**, 2 (2011) 109–149; arXiv:1007.2427.
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21. V.A. Dolgushev, The Van den Bergh Duality and the Modular Symmetry of a Poisson Variety, *Selecta Math. (N.S.)* **14**, 2 (2009) 199–228; arXiv:math/0612288.
22. V.A. Dolgushev and V.N. Rubtsov, An Algebraic Index Theorem for Poisson Manifolds, *J. Reine Angew. Math.*, **633** (2009) 77–113; arXiv:0711.0184.
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25. V.A. Dolgushev, A Proof of Tsygan’s Formality Conjecture for an Arbitrary Smooth Manifold, PhD thesis M.I.T.; math.QA/0504420.
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