Vasily Dolgushev's Publications

- **In Preparation:**

1. V.A. Dolgushev and J. Radford, Connected components of the groupoid of GT-shadows related to the full modular group.

- **Preprints and/or documentations for software packages:**

1. I. Bortnovskyi, V. A. Dolgushev, B. Holikov and V. Pashkovskyi, First examples of non-abelian quotients of the Grothendieck-Teichmueller group that receive surjective homomorphisms from the absolute Galois group of rational numbers, https://arxiv.org/abs/2405.11725
2. V.A. Dolgushev and J.J. Guynee, GT-shadows for the gentle version of the Grothendieck-Teichmueller group, *submitted to the J. of Pure and Applied Algebra in February 2024*; https://arxiv.org/abs/2401.06870
3. V.A. Dolgushev, The Action of GT-Shadows on Child's Drawings, *submitted to J. Algebra in July 2023*; https://arxiv.org/abs/2106.06645
4. V.A. Dolgushev, Documentation for the package GT, https://math.temple.edu/~vald/PackageGT/README.pdf
5. V. A. Dolgushev and G.E. Schneider, The package for computing a quasi-isomorphism $\mathsf{Ger}_\infty \to \mathsf{Br}$, https://math.temple.edu/~vald/CodeGerBraces/README.pdf
6. V.A. Dolgushev, Erratum to: "A Proof of Tsygan's Formality Conjecture for an Arbitrary Smooth Manifold", Preprint, https://arxiv.org/abs/math/0703113

- **Accepted or Published:**

1. V.A. Dolgushev, K.Q. Le and A. Lorenz, What are GT-shadows? *accepted to Algebraic and Geometric Topology,* https://arxiv.org/abs/2008.00066
2. V.A. Dolgushev, Stable formality quasi-isomorphisms for Hochschild cochains, Mém. Soc. Math. Fr. (N.S.) **168** (2021), vi + 108 pp; https://arxiv.org/abs/1109.6031
3. V.A. Dolgushev and C.L. Rogers, The cohomology of the full directed graph complex, Algebr. Represent. Theory **23**, 3 (2020) 917–961; https://arxiv.org/abs/1711.04701
4. E. Altinay-Ozaslan and V.A. Dolgushev, Towards deformation quantization over a $\mathbb{Z}$-graded base, J. Noncommut. Geom. **13**, 1 (2019) 227–256.; https://arxiv.org/abs/1702.06930
5. 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; https://arxiv.org/abs/1610.04879
6. V.A. Dolgushev, A Formality quasi-isomorphism for Hochschild cochains over rationals can be constructed recursively, Int. Math. Res. Not. **18** (2018) 5729–5785; https://arxiv.org/abs/1306.6733

7. V.A. Dolgushev and T.H. Willwacher, A direct computation of the cohomology of the braces operad, Forum Mathematicum **29**, 2 (2017) 465–488; https://arxiv.org/abs/1411.1685
8. V.A. Dolgushev and C.L. Rogers, On an enhancement of the category of shifted L_∞ algebras, Appl. Categ. Structures **25**, 4 (2017) 489–503; https://arxiv.org/abs/1406.1744
9. V.A. Dolgushev and B. Paljug, Tamarkin's construction is equivariant with respect to the action of the Grothendieck-Teichmueller group, J. Homotopy Relat. Struct. **11**, 3 (2016) 503–552; https://arxiv.org/abs/1402.7356
10. 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; https://arxiv.org/abs/1211.4230
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13. 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; https://arxiv.org/abs/1207.2180
14. 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.
15. 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.
16. 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.
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