

List of publications (Mikiya Masuda)

Preprint

- [1] (with T. Horiguchi, T. Sato, and H. Zeng) *Notes on the cohomology of partial Hessenberg varieties*, arXiv:2507.23259
- [2] *Symmetric matrices defined by plane vector sequences*, arXiv:2503.06836
- [3] (with D. Jang, S. Kuroki, T. Sato, and H. Zeng) *Automorphisms of GKM graphs and regular semisimple Hessenberg varieties*, arXiv:2405.16399
- [4] (with T. Horiguchi, J. Shareshian, T. Sato, and J. Song) *Gamma vectors of partitioned permutohedra*, arXiv:2405.09242
- [5] (with E. Lee and S. Park) *Toric Schubert varieties and directed Dynkin diagrams*, arXiv:2311.11535
- [6] (with T. Sato) *Regular semisimple Hessenberg varieties with cohomology rings generated in degree two*, arXiv:2301.03762
- [7] (with E. Lee and S. Park) *Torus orbit closures in the flag variety*, to appear in Handbook of Combinatorial Algebraic Geometry, arXiv:2203.16750

Selected published papers

- [1] (with T. Horiguchi and T. Sato) *Modular law through GKM theory*, Algebraic Combinatorics, Algebr. Comb. 7 (2024), no. 5, 1433–1451.
- [2] (with T. Horiguchi, J. Shareshian, and J. Song) *Toric orbifolds associated with partitioned weight polytopes in classical types*, Selecta Math. (N.S.) 30 (2024), no. 5, Paper No. 84, 37 pp.
- [3] (with T. Sato) *Unicellular LLT polynomials and twin of regular semisimple Hessenberg varieties*, IMRN. Vol. 2024, Issue 2, 964–996.
- [4] (with T. Abe, T. Horiguchi, S. Murai, Satoshi and T. Sato), *Hessenberg varieties and hyperplane arrangements*. J. Reine Angew. Math. 764 (2020), 241–286.
- [5] (with E. Lee) *Generic torus orbit closures in Schubert varieties*. J. Combin. Theory Ser. A 170 (2020), 105143, 44 pp.
- [6] (with H. Abe, M. Harada, and T. Horiguchi) *The cohomology rings of regular nilpotent Hessenberg varieties in Lie type A*. Int. Math. Res. Not. IMRN 2019, no. 17, 5316–5388.
- [7] (with V. Bukhshtaber, N. Erokhovets, T. Panov and S. Park), *Cohomological rigidity of manifolds defined by 3-dimensional polytopes*. (Russian) Uspekhi Mat. Nauk72 (2017), no. 2 (434), 3–66; translation in Russian Math. Surveys 72 (2017), no. 2, 199–256.

- [8] (with S. Choi and S-i. Oum), *Classification of real Bott manifolds and acyclic digraphs*. Trans. Amer. Math. Soc. 369 (2017), no. 4, 2987–3011.
- [9] (with H. Ishida and Y. Fukukawa), *Topological toric manifolds*. Mosc. Math. J. 13 (2013), no. 1, 57–98, 189–190.
- [10] (with T. Panov), *On the cohomology of torus manifolds*. Osaka J. Math. 43 (2006), no. 3, 711–746.
- [11] *h-vectors of Gorenstein* simplicial posets*. Adv. Math. 194 (2005), no. 2, 332–344.
- [12] (with A. Hattori), *Theory of multi-fans*. Osaka J. Math. 40 (2003), no. 1, 1–68.
- [13] *Unitary toric manifolds, multi-fans and equivariant index*. Tohoku Math. J. (2) 51 (1999), no. 2, 237–265.
- [14] (with L. Moser-Jauslin and T. Petrie), *The equivariant Serre problem for abelian groups*. Topology 35 (1996), no. 2, 329–334.
- [15] (with T. Petrie), *Stably trivial equivariant algebraic vector bundles*. J. Amer. Math. Soc. 8 (1995), no. 3, 687–714.