

List of papers

1. Peer-reviewed papers

- [1.1] H. Abe and P. Crooks, “Minimal nilpotent Hessenberg varieties”, to appear in Pure and Applied Mathematics Quarterly.
- [1.2] H. Abe and S. Billey, Consequences of Lakshmibai-Sandhya Theorem: the ubiquity of permutation patterns in Schubert calculus and related geometry, to appear in Advanced Studies in Pure Mathematics.
- [1.3] H. Abe and T. Horiguchi, “The torus equivariant cohomology rings of Springer varieties”, Topology Appl. **208** (2016), 143-159.
- [1.4] H. Abe and T. Matsumura, “Schur polynomials and Weighted Grassmannians”, J. Algebraic Combin. **42**(3) (2015), pp 875-892.
- [1.5] H. Abe, “Young diagrams and intersection numbers for toric manifolds associated with Weyl chambers”, Electron. J. Combin. **22**(2) (2015), #P2.4.
- [1.6] H. Abe and T. Matsumura, “Equivariant cohomology of weighted Grassmannians and weighted Schubert classes”, Int. Math. Res. Not. **2015**(9), (2015) 2499-2524.
- [1.7] H. Abe, M. Harada, T. Horiguchi, and M. Masuda, “The equivariant cohomology rings of regular nilpotent Hessenberg varieties in Lie type A: Research Announcement”, Morfismos **18**, No. 2 (2014), pp. 51-65.
- [1.8] H. Abe, “A convexity theorem for three tangled Hamiltonian torus actions, and super-integrable systems”, Differential Geom. Appl. **31** (2013), 577-593.

2. Preprints

- [2.1] H. Abe, L. DeDieu, F. Galetto, and M. Harada, “Geometry of Hessenberg varieties with applications to Newton-Okounkov bodies”, arXiv:1612.08831.
- [2.2] H. Abe, M. Harada, T. Horiguchi, and M. Masuda, “The cohomology rings of regular nilpotent Hessenberg varieties in Lie type A”, arXiv:1512.09072.