

List of papers

1. Peer-reviewed papers

- [1.1] H. Abe, P. Crooks, “Hessenberg varieties, Slodowy slices, and integrable systems”, to appear in *Math. Z.*
- [1.2] H. Abe, T. Horiguchi, M. Masuda, “The cohomology rings of regular semisimple Hessenberg varieties for $h = (h(1), n, \dots, n)$ ”, *J. Comb.* **10**(1) 27-59.
- [1.3] H. Abe, L. DeDieu, F. Galetto, M. Harada, “Geometry of Hessenberg varieties with applications to Newton-Okounkov bodies”, *Selecta Math. (N.S.)*, **24**(3), (2018), 2129–2163.
- [1.4] H. Abe, M. Harada, T. Horiguchi, M. Masuda, “The Cohomology Rings of Regular Nilpotent Hessenberg Varieties in Lie Type A”, *Int. Math. Res. Not.*, DOI: 10.1093/imrn/rnx275.
- [1.5] H. Abe and P. Crooks, “Hessenberg varieties for the minimal nilpotent orbit”, *Pure Appl. Math. Q.*, **12**(2) (2016), 183–223.
- [1.6] H. Abe and S. Billey, “Consequences of the Lakshmibai-Sandhya Theorem: the ubiquity of permutation patterns in Schubert calculus and related geometry”, *Adv. Stud. Pure Math.*, **71** (2016) 1-52.
- [1.7] H. Abe and T. Horiguchi, “The torus equivariant cohomology rings of Springer varieties”, *Topology Appl.* **208** (2016), 143-159.
- [1.8] H. Abe and T. Matsumura, “Schur polynomials and Weighted Grassmannians”, *J. Algebraic Combin.* **42**(3) (2015), pp 875-892.
- [1.9] H. Abe, “Young diagrams and intersection numbers for toric manifolds associated with Weyl chambers”, *Electron. J. Combin.* **22**(2) (2015), #P2.4.
- [1.10] H. Abe and T. Matsumura, “Equivariant cohomology of weighted Grassmannians and weighted Schubert classes”, *Int. Math. Res. Not.* **2015**(9), (2015) 2499-2524.
- [1.11] 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, Naoki Fujita, and Haozhi Zeng, “Geometry of regular Hessenberg varieties”, arXiv:1712.09269.