

8/14 [Akihiro Higashitani] Newton-Okounkov bodies of flag varieties and combinatorial mutations

Combinatorial mutations of polytopes were introduced by Akhtar-Coates-Galkin-Kasprzyk in the context of mirror symmetry for Fano varieties. In this talk, the details of combinatorial mutations will be explained. As an application to the theory of Newton-Okounkov bodies of flag varieties, it will be also explained that specific Newton-Okounkov of flag varieties, including string polytopes, Nakashima-Zelevinsky polytopes and FFLV polytopes, can be connected by iterated combinatorial mutations. This talk is based on the joint work with Naoki Fujita.