

1167-05-261      **Jeshu Dastidar\*** (jdastidar@mail.sfsu.edu). *Computing volumes of generalized permutahedra via moduli spaces of curves*. Preliminary report.

Postnikov (2005) and Eur (2018) gave explicit formulas for computing the volumes of generalized permutahedra, which were proven using combinatorial techniques and matroid theory. We use geometric tools from the theory of moduli spaces to give a new proof of Eur's formula. Our method involves studying degrees of products of divisors on Losev-Manin spaces, which are toric varieties associated to the permutahedron. (Received March 08, 2021)