

1119-13-224

Alexander Engström* (alexander.engstrom@aalto.fi). *Polytopal resolutions of Stanley-Reisner ideals of polytopes.*

Sometimes a resolution of a monomial ideal is inherited from the boundary maps of a cell complex: it's a cellular resolution. For Stanley-Reisner ideals of polytopes one could expect even more structure. We will discuss some cases where the cellular resolutions can be constructed from polytopes with beautiful symmetries. (Received February 16, 2016)