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

Sometimes a projective resolution of an 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 September 21, 2015)