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Tops

It is well known that reflexive polytopes can be used to study Calabi-Yau hypersurfaces in toric varieties. Less however is known about the use of "tops" — three-dimensional lattice polytopes with one facet containing the origin and the other facets at integral distance one from the origin. Those appear in the context of elliptically fibered Calabi-Yau hypersurfaces, where they encode degenerations of elliptic fibers. In this talk I will summarize the uses of tops, and explain how they can be classified into families closely related to the classification of affine Kac-Moody algebras.