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Steven V Sam* (svs@math.berkeley.edu). *Hyperplane arrangements and classical moduli spaces.*

Given a finite collection of hyperplanes in V , associate to each hyperplane its defining linear form and to each flat (intersection of hyperplanes) the corresponding product of linear forms. After a suitable reembedding of the hyperplane arrangement into a larger space V' , each flat has associated to it a monomial map, and so a choice of flats gives a toric variety (the closure of the image of V' by the monomial map) with a distinguished linear section (the image of the original space V). I'll give some examples of flats in Coxeter arrangements of types E_6 and E_7 where the linear sections give classical moduli spaces (of cubic surfaces and plane quartics) and some partial results on the ambient toric varieties.

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