

RATIONAL SURFACES AND GOSSET POLYTOPES

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I review some background from surface theory and then focus on the projective plane blown up in n points and explain the relation with the lattices E_n . For low n these give Del Pezzo surfaces. The cone of effective divisors on such a surface is a cone on a classical Gosset polytoop. I explain the relation with exceptional curves, minimal models of rational surfaces etc. While classic this does not seem to be widely known.