Christoph SORGER (Université de Nantes)

A symplectic resolution for the binary tetrahedral group

After some generalities on symplectic singularities obtained as the quotient of a symplectic vector space (V, w) by a finite subgroup of $SP(V)$, we shall describe an explicit symplectic resolution of the quotient singularity arising from the 4-dimensional symplectic representation of the binary tetrahedral group T. The resolution involves the scheme $T - \mathrm{Hilb}(\mathbb{C}^4)$, singular in this case (joint work with M. Lehn).