

Building a social network of elliptic fibrations for F-Theory

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We discuss the gauge groups and matter content for genus one fibrations with their fiber a hypersurface in one of the 16 2D reflexive polytopes, where some of these were already discussed in the literature. The polyhedrons are connected by geometric transitions on the geometry side which translates into a toric Higgs branch on the field theory side. This network structure is symmetric and reflects the mirror symmetry of the polytopes. This allows the identification of discrete symmetries.

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