

Calabi-Yau Threefold Flops as Quiver Varieties from Monopole Deformations

Tuesday, 25 June 2024 15:45 (15 minutes)

We present a new technique to derive the quiver and the superpotential of a D2-brane probe at the singularity of a specific class of Calabi-Yau Threefolds. These spaces are constructed as non trivial fibrations of deformed ADE singularities on a complex plane and can be conceived as non toric generalizations of the conifold geometry. We establish a correspondence between monopole operator deformations of the 3d superpotential and resolution patterns of the probed geometry.

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