

Connecting 5d Higgs Branches via Fayet-Iliopoulos Deformations

Monday, July 4, 2022 11:30 AM (1 hour)

I will describe how the geometry of the Higgs branch of 5d SCFTs is transformed under general movement along the extended Coulomb branch. By working directly with the magnetic quiver, I will demonstrate a correspondence between Fayet-Iliopoulos deformations in 3d and 5d mass deformations. This relation provides a new perspective on the interconnectedness of 8 supercharge SCFTs, that can be utilized to establish a local version of mirror symmetry, when the Higgs branch has multiple cones and the mirror map is not globally well-defined.

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