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Connecting 5d Higgs Branches via Fayet-Iliopoulos Deformations

I will describe how the geometry of the Higgs branch of 5d superconformal field theories (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.

Type of contribution

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