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The U-plane of rank-one 4d N=2 KK theories

The infrared physics on the Coulomb branch of 4d $\mathcal{N} = 2$ supersymmetric field theories is encoded in the Seiberg-Witten geometry. We revisit this description for rank one QFTs from the perspective of rational elliptic surfaces, making use of their complete classification in the mathematical literature. This perspective naturally extends to 5d SCFTs with E_n symmetry compactified on a circle and introduces tools for understanding aspects of the global flavour symmetry and non-trivial RG flows. Additionally, modular properties of the Seiberg-Witten geometries can be used to determine the corresponding BPS quivers.

Type of contribution

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