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On Twisted Elliptic Genera

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We study the elliptic genera of twisted 6d $(1, 0)$ SCFTs from several approaches: 2d localization, modular bootstrap, Higgsing and twisted elliptic blowup equations. The twist is made when the 6d gauge algebra has outer automorphism symmetry. Upon twisted circle compactification, nontrivial 5d Kaluza-Klein theories appear. We provide a universal method to compute the twisted elliptic genera of the 6d theories and find novel properties such as spectral flow symmetry.

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