

Twisted $N=1$ SCFTs and their AdS_3 duals

Wednesday 15 January 2020 17:15 (15 minutes)

We study compactifications of an infinite family of four-dimensional $N=1$ SCFTs on a Riemann surface in the presence of arbitrary background fluxes of global symmetries. The four-dimensional parent theories have holographic Sasaki–Einstein duals in type IIB string theory. Central charges and R-charges of baryonic operators in the resulting two-dimensional $N=(0,2)$ theories are computed in three distinct ways: from the field theory side utilizing the c-extremization principle, its recently discovered geometric dual formulation, and holographically using new AdS_3 duals of two-dimensional field theories.

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Session Classification: short talk