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A Geometric Dual of C-Extremization

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We consider a class of supersymmetric $\text{AdS}_3 \times Y_7$ solutions of Type IIB supergravity holographically dual to 2d (0,2) SCFTs. We show that the R-symmetry and central charge may be computed by extremizing a certain functional depending on only global topological data. In particular, assuming such a solution exists, we may calculate its central charge without knowledge of an explicit metric. We will interpret this as the geometric dual to c-extremization. Finally we will comment on some obstruction results which shed light on a previously noted issue in the literature.

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