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Seiberg-like dualities for gauge theories with a boundary

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We analyse certain 2d supersymmetric gauge theories (GLSMs) with a boundary which in the IR flow to SCFTs that are relevant for string compactifications with D-branes. Certain non-abelian GLSMs exhibit Seiberg-like dualities which relate seemingly different UV gauge theories with the same IR physics. We extend the analysis of such dualities to theories with boundaries and propose the action of the duality on the boundary degrees of freedom. We further support our proposal by performing non-trivial checks using a mathematical formulation of D-branes.

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