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Leigh and Strassler Spindled

Thursday 12 January 2023 10:30 (30 minutes)

Spindles are two-dimensional orbifolds that are topologically two-spheres, but with conical deficit angles at the north and south poles. These compact spaces are interesting, because under certain circumstances they provide a novel way to preserve supersymmetry which is distinct from the familiar topological twist. This observation
opens the possibility to construct new classes of interacting superconformal field theories (SCFTs), by compactifying higher dimensional SCFTs on spindles. In this talk, I will introduce a new class of two-dimensional N=(0,2) SCFTs in their holographic limit. By
appealing to anomaly matching arguments I further provide evidence of their higher dimensional origin–a well known four-dimensional SCFT compactified on a spindle.

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