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Branes Wrapped on Spindles

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We discuss supergravity solutions that are holographically dual to supersymmetric CFTs that arise when various branes wrap a spindle. A spindle is a specific two dimensional orbifold: a two sphere with quantised conical deficits at each of the poles. We construct solutions describing the wrapped branes in gauged supergravity and then uplift them to D=10 and D=11 supergravity. Remarkably, in some cases the higher dimensional solutions are free from all orbifold singularities. For the case of D3 and M5 branes wrapping spindles we can calculate the central charge of the CFT that arises both from the gravity solution and from a field theory computation and find exact agreement. For the case of M2 branes there is an interesting connection with D=4 accelerating black holes.

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