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Dynamical Cobordism in AdS/CFT

Tuesday 25 June 2024 17:45 (15 minutes)

The dynamical realization of the cobordism conjecture in type IIB in AdS5xS5 will be presented, using the existing gravity duals of 4d N = 4 SYM with Gaiotto-Witten superconformal boundary conditions (near-horizon limits of D3-branes ending on NS5- and D5-branes). These configurations are, from the 5d perspective, dynamical cobordism solutions which start from an asymptotic AdS5 vacuum and evolve until they hit an end of the world (ETW) brane with AdS4 worldvolume. The latter displays localization of gravity, and provides a completion of the Karch-Randall (KR) AdS branes, in which the backreaction of running scalars replace the KR cusp in the warp factor with a smooth bump.

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