

$N = 2$ AdS₄ supergravity on a manifold with boundary and “holographene”

Monday, 24 May 2021 15:00 (1 hour)

I will review the geometric construction of pure supergravity Lagrangians in four dimensions in the presence of a non-trivial spacetime boundary, focusing in particular on the $N = 2$ AdS₄ theory on a manifold with boundary. The latter recently turned out to be related, in the spirit of the holographic correspondence, to a $D = 3$ super-Chern Simons theory featuring “unconventional local supersymmetry”, relevant for the description of graphene-like systems for specific spatial geometries.

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Session Classification: Tor Vergata String Seminars