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Three notions of brane gravity localisation

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Effectively generating a lower-dimensional theory of gravity or supergravity on a subsurface brane worldvolume within a noncompact transverse space requires certain special conditions for the transverse space structure. Three different scenarios emerge, depending crucially on the nature of boundary conditions that are imposed on solutions as one transversely approaches the brane worldvolume. Genuinely lower-dimensional behaviour at long worldvolume distances can be compatible with short-distance higher-dimensional structure, but this requires a specific type of boundary condition compatible with the existence of normalisable transverse-space zero modes is chosen.

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