5D Standing Waves Braneworld

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Within the 5D standing wave braneworld model we have investigated the pure gravitational localization mechanism. For the increasing warp factor we have shown existence of normalizable zero modes of spin-0, -1 and -2 fields on the brane. For the case of spin-½ fields we find that only left spinor field zero modes are localized on the brane, while right fermionic wave functions are not normalizable.

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