

QCD Vacuum Structure and Confinement



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Cosmological Constant and Renormalization

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Abstract: According to the recently proposed dark dimension (DD) scenario, we might well live in a 5D universe with one compact extra dimension, whose mesoscopic (micrometer) size is dictated by the measured value of the cosmological constant. Considering the contributions to the vacuum energy from the Standard Model (that lives on a 4D-brane) and from the bulk, in the talk I discuss different aspects of this proposal, and investigate on the viability of the scenario .

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