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On Quark Masses in Holographic QCD

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Abstract

The Sakai-Sugimoto model of holographic QCD contains fundamental chiral matter that is localized on two four-dimensional defects where D8- and anti D8-branes intersect a stack of D4-branes. We study the spontaneous breaking of chiral symmetry in this model due to a non-local “mass” operator associated with strings stretching between the defects.