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Pion resonances in Holographic QCD

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We investigate the leptonic decay constants of pion resonances using a 5-d holographic model for Quantum Chromodynamics (Holographic QCD). We obtain a generalized version of the partially conserved axial current (PCAC) relation that includes the pion resonances. In the chiral limit, we find that the decay constants vanish, confirming a prediction from nonperturbative QCD based on the Bethe-Salpeter equations.

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