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Constraints on MeV Axions from Kaon Decays

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The QCD axion is a compelling mechanism for solving the strong CP problem. Most studies have focused on axion models with a large decay constant, (f_a
$gtrsim 10^9\,\mathrm{GeV}$). However, recent work has pointed out that viable axion models may also exist for ($f_a \sim 1\,\mathrm{GeV}$). In our research, we derive stringent constraints on this axion scenario from kaon decay measurements.

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