

Domain walls in axion models with ultra-violet completion

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Summary

The QCD axion with f_a at an intermediate scale, $10^9 - 10^{12}$ GeV, seems in conflict with the gravity spoil of global symmetries and may face the axionic domain wall problem. We point out that the string compactifications with an anomalous U(1) gauge symmetry, allowing desirable chiral matter spectra, circumvent these two problems simultaneously.

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