

PQ-quality and scale hierarchy of extra-dimensional axions

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We discuss the PQ-quality and the possible hierarchical patterns of axion scales (and couplings) for extra-dimensional axions that originate from higher-dimensional p-form gauge fields. As a concrete example, we consider a 5-dim model on Z_2 -orbifold involving 1-form and 3-form gauge fields, and examine how the warped geometry and fixed-point interactions affect the PQ-quality and axion scale hierarchy.

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