

The strong CP opportunity

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While the axion was originally introduced to “wash out” CP violation from strong interactions, new sources of CP violation beyond QCD (needed to explain the matter-antimatter asymmetry) might manifest themselves via a tiny scalar axion-nucleon component. The latter can be experimentally probed in axion-mediated force experiments, as suggested long ago by J.E. Moody and F. Wilczek. In the present contribution, I will review CP-violating axion searches and highlight the special role of the QCD axion as a low-energy probe of high-energy sources of CP violation.

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