

QCD Axions off the beaten tracks

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Benchmarks in the axion parameter space (couplings to photons, electrons and nucleons versus axion mass, and the viable mass range for axion DM) are provided by the well-known KSVZ and DFSZ axion models. However, recent years have witnessed a burst of theoretical ideas that produced a large landscape of QCD axion models, for which the relation between mass and couplings can differ sizeably from the usual KSVZ/DFSZ predictions, and others for which axion-DM can be found at mass-values much larger or smaller than usually though. A selection of some representative scenarios will be reviewed in this talk.

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