

The landscape of QCD axion models

Friday, 17 February 2023 09:40 (30 minutes)

Four decades after its prediction the axion remains the most compelling solution to the strong CP problem and a well motivated dark matter candidate, inspiring several ultrasensitive experiments based on axion-photon mixing. After reviewing the axion solution to the strong CP problem, I will focus on recent developments in axion model building suggesting that the QCD axion parameter space is much larger than what traditionally thought. The implications for astrophysical limits and future experiments will be discussed as well.

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Session Classification: Senior Session