

Nuove frontiere per la caccia all'assione

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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 of the strong CP problem and the experimental landscape of axion searches, I will focus on some recent developments in axion model building which suggest that the QCD axion parameter space is much larger than what traditionally thought. The implications for astrophysical limits and future detection experiments will be discussed as well.

Primary author: DI LUZIO, Luca (Università di Pisa)

Presenter: DI LUZIO, Luca (Università di Pisa)

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