

Redefining the Axion Window

Tuesday, April 18, 2017 9:00 AM (23 minutes)

A major goal of axion searches is reaching inside the parameter space region of realistic axion models. Currently, the boundaries of this region depend on somewhat arbitrary criteria, and it would be desirable to specify them in terms of precise phenomenological requirements. In this talk I put forth a definition for a phenomenologically preferred axion window as the region encompassing all axion models which i) do not give rise to cosmological issues, in the form of cosmologically stable strongly interacting relics; ii) do not generate Landau poles below the Planck scale.

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Session Classification: BSM