

Axion Global Fits in GAMBIT

Friday 19 May 2017 13:00 (20 minutes)

In the past years, the landscape of axion models has extended considerably beyond the original QCD axion. Axion-like particles could play a significant role in astrophysics as well as cosmology and many new experiments and observables have been proposed. The big landscape of axion models and observables generally poses a problem for obtaining coherent statistical inferences. The same holds true for a consistent treatment of the various experimental results and astrophysical observables such as cooling hints. Global fits offer a solution for this dilemma. I will show how the upcoming, publically available software GAMBIT will provide an excellent opportunity for studying and comparing axion models.

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