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Overview of feebly interacting particle in indirect detection searches

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Axion-like particles (ALPs) and other feebly interacting particles (FIPs) at sub-GeV scales has generated a lot of interest in the recent years.

Stars are good FIPs factories and consequently can be detected through their interaction with the interstellar matter or decay in standard particles. Many sources are taken as target, such as the sun and SNe.

I will illustrate how high-energy astrophysics observations can be exploited to set constraints in ALPs model and the proposal for future indirect detection experiments on MeV gamma ray energy range.

Summary

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