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Bounds and Hints on Axions from Stars

Wednesday, 23 January 2019 14:30 (1 hour)

Stars are powerful laboratories to study light, weakly interactive particles. In particular, considerations about stars and stellar evolution have led to strong bounds on axion like particles (ALPs), hidden photons, anomalous electromagnetic properties of neutrinos, etc. More recently, observations of excessive stellar energy losses have led to the appealing idea that new-physics (most likely, ALPs) may be playing a role in stellar cooling. I will review the stellar bounds and hints on ALPs and discuss the current experimental potential to probe the hinted parameter space.

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