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Dark matter in the stars: axions and asymmetric dark matter

Tuesday 11 December 2018 11:20 (50 minutes)

I will discuss recent progress in the hunt for axions and asymmetric dark matter using the Sun and other stars. First, I will present the results of global fits to axion and axion-like particle models, including constraints from horizontal branch stars, searches for solar axions, and white dwarf cooling. I will then present some preliminary results of explicit Monte Carlo simulation of energy transport in the Sun by dark matter with velocity- and momentum-dependent interactions with nucleons.

Presenter: SCOTT, Pat