



Contribution ID: 626

Type: **Poster**

Solar WIMP Search with 8 Years of IceCube Data

Weakly Interacting Massive Particles (WIMPs) are a broad class of dark matter (DM) candidates. Generically, WIMPs can have a non-zero cross section with the Standard Model (SM) particles. This allows WIMPs to scatter off large celestial bodies, and become gravitationally bound. These captured WIMPs can then co-annihilate into SM particles which can be seen by current telescopes. I will present the status of IceCube's most recent solar WIMP search which uses 8 years of IceCube data.

Mini-abstract

Search for solar weakly interacting massive particles with 8 years of IceCube data.

Experiment/Collaboration

IceCube

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Session Classification: Poster session 3