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Darkside status and prospects

Monday, 3 September 2018 15:57 (18 minutes)

DarkSide uses a dual-phase Liquid Argon Time Projection Chamber to search for WIMP dark matter. The current detector, DarkSide-50, is running since mid 2015 with a target of 50 kg of argon from an underground source. The talk will present the latest results of searches of WIMP-nucleus interactions, with WIMP masses in the GeV-TeV range, and of WIMP-electron interactions, in the sub-GeV mass range. The future of DarkSide with a new generation experiment, involving a global collaboration from all the current Argon based experiments, will be also discussed.

Selected session

Astroparticle Physics

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Session Classification: Astroparticle Physics