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Sub-GeV Dark Matter search with CRESST-III

Saturday, 9 July 2022 09:00 (20 minutes)

The CRESST (Cryogenic Rare Event Search with Superconducting Thermometers) experiment explores with high sensitivity the parameter space of low mass DM candidates, being the pathfinder in the sub-GeV/ c^2 mass range. CRESST employs different high-purity crystals and operate them at mK temperature as cryogenic calorimeters. The flexibility in employing detectors made of different materials together with the advanced performance of the thermal sensors allow CRESST-III to establish the most stringent limits on spin-dependent and spin-independent low mass DM interactions. In this contribution, the current status of the CRESST-III experiment, together with the most recent dark matter results and findings will be presented. Perspectives for the next phase of the experiment will also be discussed.

In-person participation

Yes

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