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Results on Light Dark Matter investigation with CRESST-III

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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/c² 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 stage of the CRESST-III experiment, together with the most recent dark matter results will be presented. The perspective for the next phase of the experiment will be also discussed.

First author

Luca Pattavina

Email

luca.pattavina@tum.de

Collaboration / Activity

CRESST

Primary author: PATTAVINA, Luca (INFN - Laboratori Nazionali del Gran Sasso)

Presenter: PATTAVINA, Luca (INFN - Laboratori Nazionali del Gran Sasso)

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