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Direct Dark Matter search with the CRESST-III experiment

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CRESST-III (Cryogenic Rare Event Search with Superconducting Thermometers) installed at Laboratori Nazionali del Gran Sasso, is looking to directly detect dark matter particles scattering off target nuclei in cryogenic detectors. Thanks to its energy thresholds lower than 100 eV, CRESST-III is among the leading experiments in probing sub-GeV DM masses. In this contribution, an overview of CRESST-III is presented, reporting the latest DM results and plans for the future. Recent achievements are discussed on the Low Energy Excess (LEE), an unexplained rise of events at low energies (<200 eV), currently limiting the sensitivity in the low mass region. The most recent experimental campaigns, to identify the origin of LEE and reject this background, are also discussed.

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