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Status of Direct Dark Matter Detection with Cryogenic Detectors

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Latest results from precision measurements of the cosmic microwave background (CMB) indicate that about a quarter of the Universe consists of Dark Matter (DM). Well motivated particle candidates to account for DM are Weakly Interacting Massive Particles (WIMPs) which should be directly detectable in ultra-low background experiments on Earth. After a brief introduction to the field of Dark Matter physics and the direct detection approach this talk will give an overview on the most important direct DM search experiments with special emphasis on those using low-temperature solid state detectors as well as liquid noble gas detectors. In this context the present results of the various DM searches will be discussed and future perspectives in the field will be presented.

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