

Search for light dark matter absorption signal in CDEX experiment

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The non-discovery of the WIMP dark matter in direct detection experiments has motivated studies for other dark matter candidates. The CDEX experiments conducted searches for light dark matter candidates such as dark photon dark matter, axion-like dark matter, and fermionic dark matter via their adsorptions with nuclei and electron using point contact high purity germanium detectors in China Jinping Underground Laboratory (CJPL). This talk reviews the CDEX's search for axion-like dark matter in the CDEX-1 experiment and searches for dark photon dark matter and fermionic dark matter in CDEX-10 experiments.

Collaboration (if any)

China dark matter experiment (CDEX)

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