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Status and prospects of CJPL and CDEX dark matter experiment

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China Jinping underground laboratory (CJPL) is the deepest laboratory in the world and an ideal site for experiments on particle physics, astrophysics and other low background experiments. It is located in the Jinping Mountain near Xichang city, southwest China, with an overburden of about 2400m rock. The status of CJPL-I laboratory and progress of new CJPL-II project will be described. The China Dark Matter Experiment (CDEX) pursues direct searches of light Weakly Interacting Massive Particles (WIMPs) at CJPL with p-type point-contact germanium(pPCGe) detectors. Results on light WIMPs from CDEX-1 and CDEX-10 phase, with a germanium crystal mass of ˜1kg and 10kg pPCGe detectors respectively, will be presented. The evolution of CDEX into target of CDEX-1T Experiment with ton-scale germanium detector array, aiming at both Dark Matter and Neutrinoless Double Beta Decay, will also be introduced.

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