

Status and prospect of CDEX and China Jinping underground laboratory

Wednesday 22 June 2016 13:40 (20 minutes)

The China Dark matter EXperiment (CDEX) pursues the direct searches of light WIMPs towards the goal of a ton-scale germanium detector array at the China Jinping Underground Laboratory (CJPL) in Sichuan, China. CJPL is the deepest operational underground laboratory in the world which have about 2400 m of rock overburden. Results from the CDEX-0 using a 20 g germanium detector array and the CDEX-1 using a 994 g pPCGe (p-type Point Contact Germanium) detector were reported. CDEX-10 employed a PCGe array of 10 kg target mass range is being tested in CJPL. CJPL-II laboratory is under construction which the hall volume is about 24 times more than the CJPL-I and will be finished by the end of 2016.

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