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Status of the COSINE-100 Experiment

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COSINE-100 is a dark matter direct detection experiment using low-background NaI(Tl) crystals to test the DAMA collaboration's claimed detection of the dark matter annual modulation. The first phase of the experiment, situated at Yangyang Underground Laboratory in South Korea, consists of 8 NaI(Tl) crystals with a total mass of ~106 kg and ~2000 liters of liquid scintillator as an active veto. The physics run of the experiment began in September 2016. The current status of the COSINE-100 experiment will be presented including the experimental design, detector installation, physics analysis, and the initial performance of the experiment. The timeline and prospects of the experiment will also be discussed.

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