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Recent results from the COSINE-100 experiment

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COSINE-100 is a dark matter direct detection experiment that uses 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 the Yangyang Underground Laboratory in South Korea, consists of eight 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 and several analyses are being performed based on the current energy threshold of 2 keV, with a background rate of ∼3 counts/kg/keV/day in the energy region between 2 and 6 keV. The performance of the detector and recent results will be presented.

Primary author: Dr JO, Jay Hyun (Yale University)

Presenter: Dr JO, Jay Hyun (Yale University)

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