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Status of the COSINE experiment

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The KIMS and DM-Ice group under the name of the COSINE collaboration work together to search for nuclear recoils by Weakly Interacting Massive Particle in the NaI(Tl) crystal scintillators at the Yangyang underground laboratory in Korea, targeting at a sensitivity comparable to the DAMA/LIBRA dark matter experiment. The main goal of the COSINE experiment is to confirm or dispute the annual modulation signature claimed by DAMA/LIBRA. The COSINE Phase-I which consists of a total crystal mass of 106-kg submerged in the 2300-liters of scintillating liquid as an additional veto has just begun data-taking. In this presentation, the status of the COSINE experiment including the shielding construction, calibrations and initial detector performance will be discussed.

Summary

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