

Results and Status of the COSINE project

Monday, 7 October 2019 14:00 (30 minutes)

The COSINE project aims at detecting dark-matter (DM) interactions using scintillating NaI(Tl) crystals. The project is staged in three phases: COSINE-100, COSINE-200, and COSINE-Ton that have increased target masses. The main goal of COSINE-100 and -200 is to check the annual modulation signal observed by DAMA/LIBRA in a NaI(Tl) crystal array. The goal of COSINE-Ton is to measure event-wise DM particle-nucleon interactions. The COSINE-100 experiment, with a total mass of 100 kg, has been taking data for more than three years in the low-background environment of the Yangyang underground laboratory. We will report recent COSINE-100 results and discuss future plans.

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