Contribution ID: **155** Type: **Poster**

COSINUS low-background experimental facility at LNGS

Wednesday, 10 July 2024 17:10 (20 minutes)

The Cryogenic Observatory for Signals seen in Next generation Underground Searches (COSINUS) is a direct dark matter search that utilizes sodium iodide (NaI) crystals as cryogenic calorimeters. Its primary objective is to provide a model-independent cross-check of the signal observed by the DAMA/LIBRA experiment. The cryogenic calorimeters will be operated in a dry dilution refrigerator positioned at the center of a water tank which functions both as a passive and active Cherenkov muon veto. In this contribution, we will introduce the active muon veto and elaborate on the main components of the low-background experimental infrastructure located at the Laboratori Nazionali del Gran Sasso in Italy.

Primary author: SHERA, Kumrie

Presenter: SHERA, Kumrie

Session Classification: Poster session

Track Classification: Poster session: Direct detection