

Status for COSINE-100 Upgrade and COSINE-200

Wednesday 29 March 2023 19:16 (1 minute)

The COSINE-100 experiment searches for weakly interacting massive particles with 106 kg of NaI(Tl) crystals in Yangyang, Korea. The effort will eventually progress toward the COSINE-200 detector with 200 kg of new crystals. Until the arrival of the required crystals, we organize a staged detector called the COSINE-100 Upgrade. The Upgrade will consist of a refurbishment of the existing crystals with improved encapsulation and run at -30 deg. C, which would show 30-40% higher light yields. The construction for the COSINE-100 Upgrade is ongoing in the newly built Yemilab and is scheduled to finish this summer. The status of the Upgrade and preparation for COSINE-200 will be presented.

Author: JINYOUNG, Kim

Presenter: JINYOUNG, Kim

Session Classification: Reception and Poster Session in the same room