

# PPC 2023: XVI International Conference on Interactions between Particle Physics and Cosmology

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## Yemilab physics overview

*Friday, 16 June 2023 11:30 (40 minutes)*

Yemilab is a newly constructed underground laboratory located in Korea, featuring over 1,000 meters of rock overburden and a dedicated area of 3,000 m<sup>2</sup> for rare event search experiments. Completed in the fall of 2022 within the site of an operating iron mining company, Yemilab is now open for new experiments. The installations of the AMoRE neutrinoless double beta decay experiment and the COSINE dark matter search experiment are currently underway, with experiments scheduled to start as early as fall 2023. Yemilab also offers additional spaces for future experiments, including the largest cavern for a 2 kt liquid scintillator experiment, which are waiting for good physics proposals and proper funding. This presentation will focus on the physics programs currently underway at Yemilab, as well as future experiments that are being planned and prepared for.

### Secondary category for the parallel session (optional)

**Primary author:** Dr LEE, Hyunsu (IBS)

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**Session Classification:** Plenary: Neutrino 2

**Track Classification:** Plenary session: Plenary invited