LSCNews

Laboratorio Subterráneo Canfranc

Newsletter 3/4 – Year 2025

New HK hydrostatic tests

A new hydrostatic test campaign to validate the protective covers for the sensors of the future Hyper-Kamiokande (HK) neutrino telescope was successfully completed in July. An LSC team tested 12 covers and achieved another step forward in this great international Project

ANAIS-112 Results: 6 Years Data

The ANAIS experiment presented in “**Physical Review Letters**” the results of the annual modulation analysis corresponding to six years of ANAIS-112 data.

Their results are the most sensitive to date with the same target material, NaI(Tl), as the DAMA/LIBRA experiment.

https://journals.aps.org/prl/abstract/10.1103/ntnl-zrn9

HK Excavation Complete

On July 31, the Hyper-Kamiokande (HK) collaboration completed the excavation of the colossal cavern that will house the main detector volume of HK, a next-generation ultra-pure water Cherenkov detector currently under construction in the city of Hida, Gifu, Japan.

Other relevant LSC Publications:

Hyper-Kamiokande: Neutrino Astrophysics and Status
HyperKamiokande - Ko Abe et al. *Published in: PoS ICRC2025 (2025) 1215*

The CADEx Experiment: A new haloscope axion search in the 330-460 micro-eV mass range at the Canfranc Underground Laboratory (LSC)
CADEx - B. Aja et al. *Published in: PoS COSMICWISPers (2025) 039*

Muon tracking in. a LiquidO opaque scintillator detector
LiquidO - J. Apilluelo et al. *Published in: 2507.13864*