



# LSC NEWSLETTER

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## Hyper-Kamiokande

The construction of Hyper-Kamiokande, the international 260 kton pure water neutrino telescope and accelerator neutrino experiment, being built in Japan, is progressing on schedule. Excavation of the access tunnel to the Hyper-Kamiokande site was completed on schedule on February 25, 2022. The HK Spanish teams, coordinated by LSC with the MCIN leadership, are proud to be part of this worldwide adventure.



## Ton-scale forged Copper

The internal shielding of the NEXT-100 vessel includes a thick dish of ultrapure copper, forged to resist the big change of pressure between the interior of the vessel and PMT zone. Fresh Copper was welded, forged, machined and cleaned before at LSC.

## First radiopure EFCu piece for the 3D Printer Project

The Copper Electroforming Service (CES) has built the first radiopure EF-Cu piece for Additive Manufacturing, a novel Collaboration Project with LNGS (Italy). The piece is the raw material in the process, which will become atomized powder to feed the printer.



## Women and Girls in Science Day at LSC

On February 11, with the aim of giving visibility to women in Science and inspiring girls to choose STEM disciplines, our five LSC women in Science published a video in social media, talking briefly about themselves and their work at LSC as well as answering the related questions asked.

## Other relevant LSC Publications:

Neutrino Masses and Mass Hierarchy: Evidence for the Normal Hierarchy

R. Jiménez et al. (Mar 26, 2022), (Mar 27, 2022), e-Print: 2203.14247 [hep-ph]

Long term measurement of the  $^{222}\text{Rn}$  concentration in the Canfranc Underground Laboratory

J. Amaré et al. (Mar 26, 2022), e-Print: 2203.13978 [physics.ins-det]

Ba<sup>2+</sup>ion trapping by organic submonolayer: towards an ultra-low background neutrinoless double beta decay detector.

P. Herrero-Gomez et al. (Jan 22, 2022), e-Print: 2201.09099 [hep-ex]