

FOURTH TRIMESTER | ISSUE 4 DECEMBER 2021





Copper

High purity copper is among the most important materials due to its low level of radioactivity. We have purchased welded, forged and mechanised big pieces of copper to inner shield the NEXT-100 vacuum vessel experiment.



Opening the cryostat of the CROSS experiment

of **CROSS** Members the collaboration experiment's carried out works aimed at measuring the vibration of the cryostat's holding structure and of the cryostat itself to define a vibration function.







NEXT CASTLE: A new look

NEXT's lead castle was dismantled and the steel structure modified to remove The paint covering. contribution of the castle to the radioactivity background NEXT-100 experiment will be reduced by a factor of 2.

LSC Publications:

Machine-learning techniques applied to three-year exposure of ANAIS-112

Contribution to: TAUP2021 • e-Print: 2110.10649 [astro-ph.IM]

First results from the HENSA/ANAIS collaboration at the Canfranc Underground Laboratory

e-Print: 2111.12616 [nucl-ex]

Measurement of the 136Xe two-neutrino double beta decay half-life via direct background subtraction in NEXT

NEXT Collaboration P. Novella et al. (Nov 22, 2021) e-Print: 2111.11091 [nucl-ex]