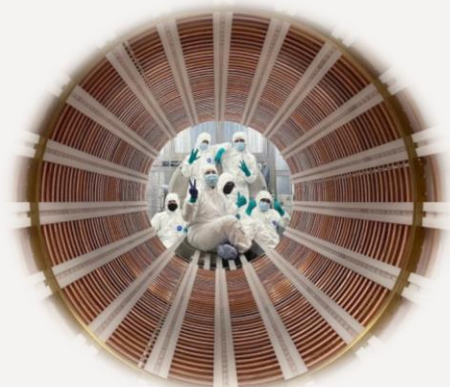


## Assembly of the NEXT -100 TPC

Over this summer, members of the NEXT experiment from England, Spain and the USA completed the assembly and insertion of the NEXT-100 TPC.



This electric field chamber and luminescence zone forming part of the interior of the detector will allow the electron traces coming from Xenon-136 decay to be observed.

## New ICP- MS- $QQQ$ underground



The LSC has acquired a new triple quadrupole ICP-MS/MS, installed in the Clean Room underground. With this new equipment, detection limits will be of the order of a few ppq at  $^{232}\text{Th}$  and  $^{238}\text{U}$  in samples of the purest materials for the experiments housed at the LSC.

## LSC Open Day 2024

Sunday September 24, the LSC celebrated its Open Day with free access activities such as a Visit to the Museum Room, Experimental Workshops, Demonstrations of Detection Techniques and Children's Workshops with a large number of visitors.



### ***Other relevant LSC Publications:***

Material assay campaign of the DarkSide-20k experiment.

DarkSide-20k Collaboration • Vicente Pesudo (Madrid, CIEMAT and LSC, Canfranc) for the collaboration. (Sep 5, 2023) / Contribution to: LRT 2022

Test of  $^{116}\text{CdWO}_4$  and  $\text{Li}_2\text{MoO}_4$  scintillating bolometers in the CROSS underground facility with upgraded detector suspension

CROSS Collaboration • A. Ahmine (SIMAP, Grenoble) et al. (Jul 27, 2023)  
e-Print: 2307.14831 [physics.ins-det]