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Aldo Ianni (Director, Canfranc): Dark Matter program at the LSC and synergy between DULs

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The activity on direct search for dark matter at the Laboratorio Subterráneo de Canfranc (LSC) is reviewed. At LSC, presently, ANAIS is in data taking to probe the DAMA/LIBRA longstanding result on annual modulation. The two-phase ton-scale liquid argon detector ArDM is in data taking. ArDM will turn into a crucial facility for DarkSide-20k by the end of 2018. More R&D activities are underway with TREX-DM, a high pressure gas TPC, and CLYC-N, an effort to characterize CLYC scintillators in the framework of dark matter direct search. A discussion on synergy between Deep Underground Laboratory in the framework of LSC is presented.

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