



Contribution ID: 65

Type: **Parallel Talk**

DarkSide-20k experiment and its veto

Wednesday 10 August 2022 14:40 (20 minutes)

The Technical Design of the DarkSide-20k experiment has been finalised and the detector construction in the Gran Sasso National Laboratory in Italy starts this year. The experiment is designed to observe WIPMs scattering from argon atoms in 20 tonnes of the liquid argon target. Scintillation light generated during the interaction is detected by planes of Silicon photomultipliers (SiPMs). The experiment will maintain negligible background level thanks to its novel neutron veto design.

In this talk I will introduce the DarkSide-20k experiment and in particular the neutron veto. I will also present the status of the ongoing tests of the veto SiPMs.

Collaboration name

The Global Argon Dark Matter Collaboration

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Session Classification: Dark Matter

Track Classification: Dark Matter