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SiPMs for cryogenic temperature

Monday, 3 September 2018 14:55 (18 minutes)

The DarkSide-20k collaboration is preparing to equip 20 m² of SiPMs working in liquid argon at 86 K for the direct search of WIMPs. The collaboration had to solve many technological aspects, such as the development of SiPM optimized for operation in liquid argon, the readout of large SiPM-based detectors, the reliable packaging of more than 200000 SiPMs using radiopure materials. The packaging solutions available for cryogenic applications and the performances of the newest cryogenic extended gain SiPMs from FBK will be discussed.

Selected session

Accelerators and Instrumentation

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Session Classification: Accelerators and Instrumentation