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Searching for Dark Matter within the Global Argon Dark Matter Program: DEAP-3600, DarkSide-20k and ARGO

Thursday 12 June 2025 16:00 (30 minutes)

The direct detection of dark matter is one of the most important topics in particle physics. Within the Global Argon Dark Matter Collaboration (GADMC) we are mounting a phased approach to this search using liquid argon. DEAP-3600 at SNOLAB started operations in 2016 and will begin new running with detector upgrades in 2025. DarkSide-20k will start operations in 2028 at LNGS. ARGO is currently being developed for operation in the 2030s. In this talk I will present an overview of the argon dark matter program.

Presenter: BOULAY, Mark (Carleton University)

Session Classification: R-MEDAL2 Vogt Medalist Talk | Conférence du lauréat de la médaille Vogt - Mark Boulay, Carleton U.