DarkSide

Monday 9 May 2022 17:00 (30 minutes)

Dark matter search is a high priority endeavour in our field. Building larger and more sensitive detectors underground in the next decades will provide an opportunity for new discoveries, but it will also require new technological developments to achieve that. Liquid argon has been used by many collaborations already and has proven to deliver high quality data, but one of the challenges that future experiments will need to address is a background intrinsic to atmospheric argon itself in a form of argon-39. In this class, I will go over lessons learned from past experiments, how those can be applied to future projects and what strategies are being developed to address the intrinsic argon background.

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