Contribution ID: **17**   Type: **Physics Analysis**

Ar2D2 Detector Simulation

Monday 15 August 2022 11:12 (12 minutes)

The Ar2D2 detector is designed to detect Ar39 levels in liquid argon. To determine if the detector would be usable for this purpose, RAT was used to simulate the background levels of radiation generated by each layer of the detector, as well as by the external lab. From the results, the main source of background radiation in the energy range of interest will be identified, along with any potential changes to the design that would mitigate this background.

Author: FOSTER, Megan

Presenter: FOSTER, Megan

Session Classification: Session I