

Measurement of space charge effects in ProtoDUNE-SP

Tuesday, July 28, 2020 6:05 PM (15 minutes)

The accumulation of positive ions in a LArTPC located on the surface can distort the electric field and the reconstructed particle trajectories. It is critical to understand and correct for the space charge effects in order to achieve the desired spatial and calorimetric resolutions in the LArTPC. This talk will present the measurement of space charge effects using cosmic ray muons in ProtoDUNE-SP.

I read the instructions

Secondary track (number)

2

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