

The Pandora particle flow algorithm

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Pattern recognition is an essential stage in the reconstruction of particle interactions in liquid argon time projection chamber detectors, which are used to study the properties of neutrinos. The novel multi-algorithm approach implemented in the Pandora software uses many tens of algorithms to gradually build up an image of the event and has been used successfully for pattern recognition in a number of neutrino physics experiments including MicroBooNE, ProtoDUNE, and the future DUNE experiment. This talk outlines the algorithm flows used by Pandora for reconstructing and identifying neutrino and cosmic ray interactions in these detectors.

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Session Classification: Talks