New Perspectives 2021



Contribution ID: 11 Type: not specified

ANNIE in 10 Minutes

Tuesday, 17 August 2021 09:15 (15 minutes)

The Accelerator Neutrino Neutron Interaction Experiment (ANNIE) is a 26-ton gadolinium-doped water Cherenkov detector situated 100-m downstream in Fermilab's Booster Neutrino Beam. ANNIE's main physics goal is to measure the final state neutron multiplicity of neutrino-nucleus interactions as a function of momentum transfer. This measurement will improve our understanding of these complex interactions and help reduce the associated systematic uncertainties, thus benefiting the next generation of long-baseline neutrino experiments. ANNIE will achieve its physics goals with the use of a new type of photodetector, the Large Area Picosecond Photodetector (LAPPD). The experiment is the first physics experiment to deploy an array of LAP-PDs. Significant progress has been made on the characterization and development of this system. In this talk, we will present the status of ANNIE experiment.

Primary author: HE, Julie (UC Davis)

Presenter: HE, Julie (UC Davis)
Session Classification: Tuesday