

## New Perspectives



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## ANNIE in 10 minutes

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Accelerator Neutrino Neutron Interaction Experiment (ANNIE) is a 26-ton Gd-doped water Cherenkov detector located on the Booster Neutrino Beam (BNB) at Fermilab and designed to measure the neutron multiplicity of neutrino-nucleus interactions in their final state. In long-baseline oscillation experiments, signal-background separation and a better understanding of cross-section uncertainty are in high demand. With its next-generation neutrino detector with advanced photosensors (LAPPD) and gadolinium-enhanced water, ANNIE makes possible. This talk will go over physics goals and the ANNIE status.

**Primary author:** ASCENCIO SOSA, Marvin (Iowa State University)

**Presenter:** ASCENCIO SOSA, Marvin (Iowa State University)

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