MODELING OF HIGH-ENERGY ELECTROMAGNETIC SHOW-ERS IN ICE

Dave Besson, for the RICE Collaboration

KU Physics Dept., Lawrence, KS 66045-2151. dbesson@ukans.edu

To calculate the sensitivity of a radiofrequency-based neutrino detector, a Monte Carlo simulation of electromagnetic shower development in a dense medium (ice, e.g.) is used. We have done studies using the GEANT simulation package, and have compared results to those obtained using a separate simulation ("ZHS"). Differences are noted, and experimental implications are presented.