

MODELING OF HIGH-ENERGY ELECTROMAGNETIC SHOWERS IN ICE

D. Besson et al. (The RICE Collaboration)

Bartol Institute, Florida St. U., Kansas U., MIT, U. of Canterbury (NZ)

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.