

Abstract Submitted
for the DNP10 Meeting of
The American Physical Society

SciBath: A novel tracking detector for neutral particles LANCE GARRISON, BRANDON KUNKLER, HANS-OTTO MEYER, MELANIE NOVAK, TYLER MIKEV, REX TAYLOE, GERARD VISSER — The SciBath prototype detector consists of 90 liters of liquid scintillator containing 768 wavelength-shifting fibers aligned in a three dimensional grid with no optical separation. This unique design allows detailed reconstruction of charged particle tracks in arbitrary directions. While constructed as a prototype neutrino detector it should also detect neutrons in the 1-100MeV range with high efficiency and good resolution. The device is currently being commissioned. Information on the detector performance will be presented along with a discussion of potential applications.

Lance Garrison

Date submitted: 01 Jul 2010

Electronic form version 1.4