

Abstract Submitted  
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**Development of inorganic nanocomposite scintillators for gamma-ray detection** MINESH K. BACRANIA, D. WAYNE COOKE, RICO E. DEL SESTO, ROBERT D. GILBERTSON, EDWARD A. MCKIGNEY, ROSS E. MUENCHAUSEN, KEVIN C. OTT, MELISSA A. SIEMENS, SY STANGE — Inorganic nanocomposite scintillators offer the possibility of combining the robust physical characteristics of plastic scintillator and the spectroscopic power of inorganic single-crystal scintillators. We currently are able to produce lanthanum-halide-based nanocomposite scintillators with volumes of 5–15 cc. This talk will discuss the progress of our scintillator development program, and results of optical and nuclear measurements will be presented.

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