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Exploiting Physics at the Nanoscale: Innovative Microsystems Process and Device Technologies at Sandia National Laboratories

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Sandia's MESA complex includes both silicon and compound semiconductor fabs and over 100 laboratories, staffed by 500 scientists, engineers, and technologists. In addition to radiation-hardened silicon and III-V process technologies, Sandia conducts R&D through product delivery in a wide array of nanoscale and microscale technologies, including many relevant to the particle physics community. This talk will describe several technologies including radiation-hardened semiconductors, atomic physics-based devices, optoelectronics/photonics, MEMS, sensors, and others. The goal of the presentation is to foster partnerships with the global particle physics community to develop new sensors and electronics based upon MESA process and device technologies.

Author: HERRERA, Gilbert (Sandia National Laboratories)

Presenter: HERRERA, Gilbert (Sandia National Laboratories)

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