



Contribution ID: 74

Type: **not specified**

Progress Towards Study of Charge Collection and Precision Timing of Small Pitch 3D Sensors

Wednesday 30 November 2022 14:45 (20 minutes)

Silicon sensors in particle physics experiments like those at the Large Hadron Collider must be able to withstand extreme radiation doses. 3D sensor technology is one of the most promising radiation-hard silicon detector technologies. 3D sensors are currently used in the ATLAS detector, but even more radiation-hard sensors must be developed for future collider experiments. Characterization measurements made as a function of fluence for a set of small-pitch 3D sensors that could be used in future particle physics experiments will be presented.

Primary author: GENTRY, Andrew Donald (University of New Mexico (US))

Co-authors: DALLA BETTA, Gian-Franco (INFN and University of Trento); SI, Jiahe (University of New Mexico (US)); HOEFERKAMP, Martin (Department of Physics and Astronomy); BOSCARDIN, Maurizio (FBK Trento); SEIDEL, Sally (University of New Mexico (US))

Presenter: GENTRY, Andrew Donald (University of New Mexico (US))

Session Classification: New Structures