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Characterization Measurements of Small-Pitch 3D Silicon Sensors for Particle Physics Applications

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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.

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