

A geometry management system (GMS) is designed for the Offline Software of Super Tau Charm Facility (STCF) in China. Based on the eXtensible Markup Language (XML) and Detector Description Toolkit for High Energy Physics Experiments (DD4Hep), the system provides a consistent detector-geometry description for different offline applications, such as simulation, reconstruction and visualization. It is being used for detector optimization and performance evaluation package (FullSim). The paper presents the design, implementation, and performance of the GMS.







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Detector geometry management system designed for Super Tau Charm Facility offline software

