



Contribution ID: 194

Type: **not specified**

Potential of Thin Film Detectors

Thursday, 18 March 2021 13:00 (20 minutes)

Nanoscience technologies are developing new cutting edge materials and devices for a wide range of applications. HEP can take advantage of the many advancements by looking toward thin film fabrication techniques to implement a new type of particle detector. Thin Film Detectors have the potential to be fully integrated, large area, low power, low dead material, and low cost. I will discuss potential research paths using thin film technologies and the potential performance benefits for future particle physics experiments.

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Session Classification: Solid State Vertexing and Tracking

Track Classification: Solid State