Contribution ID: **16**   Type: **Parallel session talk**

Thin Film Detectors

Thursday 9 October 2025 11:00 (20 minutes)

Thin Film particle detectors represent a new generation of particle detectors that can be made with scalable fabrication techniques with the aim of a printable design. These fabrication techniques also enable a wider variety of potential detector materials that can achieve high performance through better charge collection properties or faster electron mobilities for better timing. A set of InP detectors were fabricated as a first step toward demonstrating this concept. The charge collection properties were studied after irradiation and in test beam environments. The overall concept and challenges as well as the recent results will be presented.

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Session Classification: RDC 3 Solid State Tracking

Track Classification: RDC 3 Solid State Tracking