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Outer-Detector Tracking Studies for the SiD

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We present tracking finding studies with the SODTracker package for the outer SiD tracker, and track fitting studies using Kalman filter fitters. Based on seed tracks found in the vertex tracker, the SODTracker uses an efficient propagation algorithm to find tracks in the outer detector. For optimal resolution tracks need to be fit with Kalman filter techniques, taking into account the presence of the material along the particle trajectories. We describe the status of the development of these packages, as well as results from performance studies.

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