

Tracking with

- ACTS has matured a lot as a tracking toolkit over the past year
 - Consolidation of tracking infrastructure, e.g. geometry, propagator, Event Data Model
 - Implementation of new tracking features, e.g. KalmanFilter, CombinatorialKalmanFilter(CKF), vertexing finding/fitting
 - Performance validated yet to be optimized
- ACTS is an active R&D platform for new tracking techniques (ML) and hardware architectures (Multi-core, GPUs)
- Growing interest in experiment application & contribution
 - ATLAS ID+Calo, ATLAS ITK, OpenData Detector, CEPC, sPhenix, Belle-II
- Project mission:
 - Mid-term: Facilitate detector application & software integration, e.g. LHC ATLAS Run3
 - Long-term: Provide full tracking solution for future detectors, e.g. LHC ATLAS Run4

<https://github.com/acts-project/acts>

TrackML detector, ATLAS B field

