

ACTS tracking software

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We present a first assessment of track reconstruction for the FCC-hh detector. Starting from common DD4hep detector input the simulation and reconstruction geometry is built. Events generated with PYTHIA are merged to create a pile-up scenario and the output is fed into the full (Geant4) or fast track simulation (FATRAS). The simulated output is digitized using a geometrical digitization approach. A truth based tracking algorithm bypasses conventional pattern recognition applications and in a final track fit the track resolutions of the current FCC-hh detector are established.

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