



Contribution ID: 8

Type: **Plenary**

Fast tracking for the HL-LHC ATLAS detector

Tuesday 21 April 2020 15:05 (25 minutes)

During the High-Luminosity Phase 2 of LHC, up to 200 simultaneous inelastic proton-proton collisions per bunch crossing are expected. This poses a significant challenge for the track reconstruction and its associated computing requirements due to the unprecedented number of particle hits in the tracker system. In order to tackle this issue, dedicated algorithms have been developed in order to speed up the track reconstruction and further optimise the default algorithms. The performance of this Fast Track Reconstruction will be presented and compared to the one of the default Phase 2 track reconstruction.

Consider for young scientist forum (Student or postdoc speaker)

No

Second most appropriate track (if necessary)

Enhanced performance of tracking algorithms

Presenter: KLIMPEL, Fabian (Max-Planck-Institut für Physik (DE))

Session Classification: Recording sessions