



Contribution ID: 243

Type: **Oral Presentation**

Level 1 Track Finder at CMS

Tuesday, July 30, 2019 4:52 PM (18 minutes)

The High Luminosity upgraded LHC is expected to deliver proton-proton collisions per 25 ns with an estimated 140-200 pile up interactions per bunch crossing. Ultrafast track finding is vital for handling L1 trigger rates in such conditions. An FPGA-based track trigger system, capable of finding tracks with momenta above 2 GeV is presented.

Primary author: HART, Andrew Evan (Rutgers State Univ. of New Jersey (US))

Co-author: THE CMS COLLABORATION

Presenter: HART, Andrew Evan (Rutgers State Univ. of New Jersey (US))

Session Classification: Particle Detectors

Track Classification: Particle Detectors