



Contribution ID : 218

Type : **Oral presentation**

## Phase 2 Upgrade of the CMS Tracker

*Saturday, 5 July 2014 16:35 (20)*

The LHC machine is planning an upgrade program which will smoothly bring the luminosity up to or above  $5 \times 10^{34} \text{ cm}^{-2}\text{s}^{-1}$  sometime after 2020, to possibly reach an integrated luminosity of  $3000 \text{ fb}^{-1}$  at the end of that decade. In this ultimate scenario, called Phase2, when LHC will reach the High Luminosity (HL-LHC) phase, CMS will need a completely new Tracker detector, in order to fully exploit the high-demanding operating conditions and the delivered luminosity. The new Tracker should have also trigger capabilities. To achieve such goals, R&D activities are ongoing to explore options and develop solutions that would allow including tracking information at Level-1. The design choices for the CMS pixel and outer tracker upgrades are discussed along with some highlights of the R&D activities.

### Summary

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**Session Classification** : Detector RD and Performance

**Track Classification** : Detector RD and Performance