



Contribution ID: 213

Type: **Talk**

## The upgrade of the CMS detector for the High Luminosity LHC

*Wednesday, 9 September 2020 12:15 (25 minutes)*

In order to provide the required physics performance under the challenging radiation and pileup conditions at the High Luminosity LHC, the CMS detector will undergo deep upgrades.

Under this upgrades program the existing sub-detector systems will either be improved or replaced. Entirely new sub-detector systems will also be incorporated to provide new capabilities that are not available presently. In this oral presentation the rationale behind the planned upgrades to the CMS tracking, calorimetry, muon detectors and the new timing detector will be summarized.

This will set the stage for the detailed presentations on these topics.

### Is this abstract from experiment?

Yes

### Internet talk

Yes

### Name of experiment and experimental site

CMS

### Is the speaker for that presentation defined?

Yes

### Details

Rajdeep Mohan Chatterjee

**Primary author:** Dr CHATTERJEE, Rajdeep Mohan (University of Minnesota (US))

**Presenter:** Dr CHATTERJEE, Rajdeep Mohan (University of Minnesota (US))

**Session Classification:** Mini Workshop on Instruments and Methods in HEP