

DIS2023: XXX International Workshop on Deep-Inelastic Scattering and Related Subjects



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Type: **Parallel talk**

CMS detector: Run 3 status and plans for Phase2

Wednesday, 29 March 2023 12:10 (20 minutes)

The CMS experiment at CERN underwent several detector upgrades before the Large Hadron Collider (LHC) Run 3 started in 2022, delivering integrated proton collision luminosity of 38 fb⁻¹ to CMS. LHC will continue with the planned proton-proton and lead ion collision programmes until the Run-3 concludes in 2025. During High Luminosity operations (2029-2038), LHC is expected to deliver 3000 fb⁻¹ to CMS at high instantaneous luminosity and pileup. Significant detector upgrades are in development to prepare for operations in these challenging conditions.

This presentation will give an overview of the status of the CMS experiment after the first year of Run 3, and a general overview and plans of scheduled upgrades for the High Luminosity LHC (Phase-2).

Submitted on behalf of a Collaboration?

Yes

Participate in poster competition?

No

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