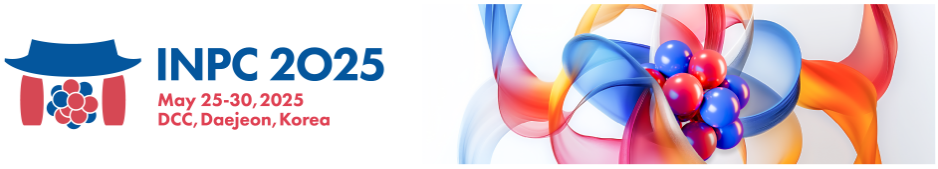

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Summary of Heavy Ion Beam Run 3 at CERN LHC for the CMS Experiment

The CMS experiment is designed to search for new physics and detect a broad spectrum of particles and physical phenomena using high-energy proton-proton and heavy-ion collisions at the Large Hadron Collider (LHC) at CERN. in 2023 and 2024, data from the lead-lead (Pb-Pb) collision at theLHC were taken at \sqrt{s_{NN}} = 5.36 TeV. The luminosity recorded by the CMS detector was around 1.7 nb^{-1} per year. In this poster, a the summary and future plans for heavy ion beams at the CERN LHC will be presented, including the current physics analysis.

Consent

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