Contribution ID: **268** Type: **Parallel Talk**

Physics performance of the ALICE experiment in LHC Run 3

Friday, 8 July 2022 09:18 (17 minutes)

During the long shutdown 2, the ALICE experiment undertook major detector and software upgrades bringing a paradigm shift in the operation and performance of the new detector.
Run 3 started at the end of October 2021 with the first colliding proton-proton beams, the so-called “pilot beam”. On this occasion, the ALICE experiment successfully recorded pp collisions at 900 GeV, proving its readiness for future data taking campaigns. In addition to validating the data reconstruction and calibration procedure, the data collected was processed with the new offline analysis framework, pioneering physics analyses for the whole Run 3. In this contribution, we report on the pilot beam results, focusing particularly on the physics performance and discussing the repercussions in terms of physics outcome of light-flavour analysis (π/K/p and V0s), compared to what reached during LHC Run 2.

In-person participation

Yes

Primary author: CC CHAIRS, ALICE

Presenter: LANDOU, Aimeric

Session Classification: Operation, Performance and Upgrade (Incl. HL-LHC) of Present Detectors

Track Classification: Operation, Performance and Upgrade (Incl. HL-LHC) of Present Detectors