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The LHC run 2022

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Following a 3-year long shutdown for upgrade and consolidation work, the LHC was re-commissioned in spring 2022, achieving a new record of 6.8 TeV per beam. This paper will describe the beam commissioning phase, the electron cloud conditioning, and the intensity ramp-up bringing the machine to a steady production state. The main issues and achievements will be presented, including the fully automated luminosity levelling via β^* adjustment. The limitations for beam intensity and peak luminosity will also be discussed.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Primary author: JACQUET, Delphine (European Organization for Nuclear Research)

Co-authors: MIRARCHI, Daniele (European Organization for Nuclear Research); NISBET, David (European Organization for Nuclear Research); MÉTRAL, Elias (European Organization for Nuclear Research); CALIA, Andrea (European Organization for Nuclear Research); BRAVIN, Enrico (European Organization for Nuclear Research); TRAD, Georges (European Organization for Nuclear Research); WENNINGER, Jorg (European Organization for Nuclear Research); SOLFAROLI, Matteo (European Organization for Nuclear Research); HOSTETTLER, Michi (European Organization for Nuclear Research); REDAELLI, Stefano (European Organization for Nuclear Research); ARGYROPOULOS, Theodoros (European Organization for Nuclear Research); PERSSON, Tobias (European Organization for Nuclear Research)

Presenter: JACQUET, Delphine (European Organization for Nuclear Research)

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