

LHC Performance in 2012: An Overview

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Abstract

An overview of LHC performance and overall machine availability are presented. This includes discussion on both factors contributing to the luminosity delivery, and an outline of the faults, downtime and turnaround issues that impacted the machine availability. Attention is given to improvements made throughout the year, which made for an extremely successful luminosity-production run. Comparison with the 2011 LHC performance is made in order to ascertain how LHC operation and performance has evolved.