

Cycle at 4 TeV and 7 TeV

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Abstract

The LHC has been successfully operated at 4 TeV during 2012 run. An analysis of the critical points of the standard operational cycle has been made, aiming at increasing the performance and the efficiency of the machine. An outlook at the changes that will be faced with the 7 TeV operation after LS1 is given, with particular attention at some possible scenarios. A consideration on the differences of the magnetic behavior is also made.