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The First Long Shutdown (LS1) and future upgrades of the LHC machine

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The LHC has been delivering data to the physics experiments since the first collisions in 2009. The first long shutdown (LS1), which started on 14 February 2013, was triggered by the need to consolidate the magnet interconnections so as to allow the LHC to operate at the design energy of 14 TeV in the centre-of-mass for proton-proton collisions. It has now become a major shutdown that, in addition, includes other repairs, consolidation, upgrades and cabling across the whole accelerator complex and the associated experimental facilities.

LHC physics will resume in early 2015 while the other injectors and experimental areas of CERN will resume their operation in the second half of 2014.

The presentation first will describe the main activities of the LS1 and the operation strategy up to the LS2. Then, it will give the plans for the full exploitation of the LHC in line with the Update of the European Strategy for Particle Physics.

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