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LHC Operation

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With the LHC start up we had to learn how to operate powerful beams. The amount energy stored in LHC magnets and beams, and the potential damages produced by uncontrolled loss of this energy lead to the design of a very sophisticated interlock system. In addition the LHC is commissioned in steps of intensity and energy. We have to fulfill these vital tests before the nominal beams will collide at high energy. Sequencer, Safe machine parameters, Post-mortem, Collimators, Injection protection, Injection Quality Control, are the Software and Hardware tools that allow us to inject, ramp, squeeze and finally collide beams at 4 TeV. An overview of LHC operation and latest's results will be presented.

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