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# Will the machine protection systems let LHC safely operate?

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A simplified model of the machine protection system which includes the Beam Interlock System, the Beam Loss Monitors, the Quench Protection System, the Powering Interlock Controller and the Beam Dumping System has been studied. The model provides quantitative results for safety and availability of the complete system. The importance of the assumed redundancy at the source of the dump request and the system regeneration is demonstrated.

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