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Electrical Quality Assurance (ELQA)

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The electrical integrity and the safe operation of the superconducting electrical circuits are crucial issues for the successful commissioning with and without beam and for the operation of the LHC machine. Beam based measurements may require in-situ verification of the magnet polarities. The detection, diagnostics, repair and re-qualification of electrical faults and the verification of magnet polarities will inevitably have an impact on the machine availability. Therefore efficient and fast ELQA methods during beam commissioning shall be established and applied. This talk will initially outline the guidelines of the electrical quality assurance plan and will then depict some scenarios for electrical fault detection, magnet polarity error location and electrical re-qualification after magnet or lead exchange. Finally some aspects related to the acceptable status of affected electrical circuits will be given.

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