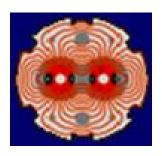
Workshop Chamonix XIV



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Electrical Quality Assurance (ELQA)

Tuesday 18 January 2005 14:00 (20 minutes)

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

electrical circuits will be given.

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Session Classification: Session 4 - Other Issues affecting Beam Commissioning I

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