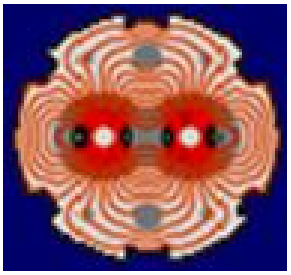

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Issues concerning the reliability of the LHC cryogenic system

Tuesday 18 January 2005 11:25 (20 minutes)

The functionalities, redundancy and possible failure scenarios of the cryogenic system will be briefly presented. The reliability of components and the impact on beam commissioning will be analyzed. Continuous versus cycled operation (thermal, pressure, etc.) will be investigated together with the requirements and problems related to the accessibility of components and radiation issues for in-situ components repair or exchange. A list of possible intervention for repairs will be given together with the associated downtime for beam commissioning. Finally the strategy for spares and maintenance (corrective against preventive) and the consequences on the system availability will be presented with the consequent intervention scenarios and machine access requirements.

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