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Summary of the 2009 irradiation tests and perspectives for future tests and facilities

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Numerous radiation tests were performed during 2009, both directly at CERN in CNGS, as well as at various outside facilities. This presentation gives an overview of the test results by putting them in contrast to expected radiation levels in the exposed areas. By applying a best guess scaling of the expected development of the respective LHC radiation levels, failure rates can be estimated for both short- medium- and long-term LHC operation. Based on this, the most critical systems and mitigation options are investigated. Furthermore, future test requirements are compared to the availability and characteristic of existing test facilities.

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