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Radiation tolerant issues for LHC accelerator

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Electronic systems located in LHC underground areas can suffer by radiation induced failures. The knowledge of the radiation levels around the LHC accelerator and the cause of faults permits to improve the LHC availability every year. The shielding, relocation and equipment upgrade are the ingredients to mitigate the radiation effects. A test protocol exists for the equipment upgrade which requires radiation tolerant design. The methodology and the facilities are available to improve the radiation tolerance of the electronic systems that requires high reliability. This presentation will go through all these steps to explore the key elements that can make possible to reduce the radiation induced failures.

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