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Beam loss monitors, realisation

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The BLM system is one of the most critical elements for the protection of the LHC.

For this reason, its design must ensure a reliable, failsafe, secure and fast system.

The complete system consists of: Detectors placed at various locations around the ring. Radiation tolerant tunnel electronics, the CFC cards, which are responsible for

acquiring, digitising, and transmitting the data. Surface data analysis cards, the BLMTC cards, which receive the data via 2 km optical data links, process, analyze,

store, and issue warning and abort triggers. Finally, on the far end, the Combiner

cards at each crate collect those triggers together with status information in order

to pass the abort signal to the Beam Interlock Controller system. In this

presentation the BLM system will be explored giving emphasis at the strategies

followed to provide and verify its design goals.

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