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Beam instrumentation other than BLMs linked to the machine protection system

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The beam loss monitoring system will be the main instrument charged with detecting and acting upon the majority of failures that could lead to quenches or damage. In a few cases, however, additional instrumentation is required to protect the machine.

Three such systems will be discussed along with their proposed implementation, namely: the beam dump channel position interlock in IR6, a fast orbit drift interlock and a fast loss interlock using beam current transformers. For many types of failures these systems would also be a back-up to beam loss monitoring thus increasing the overall reliability of the machine protection system.

Primary author: Dr JONES, Rhodri (CERN)

Presenter: Dr JONES, Rhodri (CERN)

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