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Beam Quality Assessment for the LHC beams real time and post-mortem

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The LHC has stringent requirements on transverse and longitudinal beam quality to avoid beam instabilities, maximize transmission and performance. Dedicated automatic quality checks are carried out in the last LHC injector and in the LHC after each injection. These systems have successfully indicated problems with beam quality at many occasions and guarantee the required excellent performance from the injectors. The monitored parameters, analysis and infrastructure of the automatic analysis systems are described. The importance of logging. long time storage together with appropriate tools to display trends of monitored parameters will also be discussed. Missing aspects of the current quality checks will be mentioned.

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