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Data Quality Evaluation in ATLAS during LHC Run 2

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The LHC delivered more than 150/fb of collision data to ATLAS between 2015-2018. In order to produce reliable physics results of high quality, the data is subject to intense scrutiny to ensure detector conditions are well understood and to eliminate any detector-related problems affecting the dataset. This talk discusses the data quality (DQ) monitoring procedures in place to guarantee the integrity of all ATLAS collision data, from the point at which the data is recorded up until the delivery of an analysis-ready dataset to physics groups. During Run-2 ATLAS recorded a total integrated luminosity of 139/fb good for physics pp collision data with a data quality efficiency of about 95%.

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