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First use of LHC Run 3 Conditions Database infrastructure for auxiliary data files in ATLAS

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Processing of the large amount of data produced by the ATLAS experiment requires fast and reliable access to what we call Auxiliary Data Files (ADF). These files, produced by Combined Performance, Trigger and Physics groups, contain conditions, calibrations, and other derived data used by the ATLAS software. In ATLAS this data has, thus far for historical reasons, been collected and accessed outside the ATLAS Conditions Database infrastructure and related software. For this reason, along with the fact that ADF data is effectively read by the software as binary objects, makes this class of data ideal for testing the proposed Run 3 Conditions data infrastructure now in development. This paper will describe this implementation as well as describe the lessons learned in exploring and refining the new infrastructure with the potential for deployment during Run 2.

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Distributed data handling

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Co-authors: FORMICA, Andrea (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR)); GALLAS, Elizabeth (University of Oxford (GB)); RYBKIN, Grigori (Laboratoire de l'Accelerateur Lineaire (FR)); RINALDI, Lorenzo (Universita e INFN, Bologna (IT)); APERIO BELLA, Ludovica (University of Birmingham (GB)); ROE, Shaun (CERN); BUTTINGER, Will (Brookhaven National Laboratory (US))

Presenter: RYBKIN, Grigori (Laboratoire de l'Accelerateur Lineaire (FR))

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