

## ATLAS Open Data - implementations and tools for the next release of datasets

*Tuesday 3 December 2024 17:00 (20 minutes)*

The ATLAS Open Data provides a wide amount of tools so students, professors and different institutes along the world can use them to be trained in the field of experimental particle physics. Along these last years, this collaboration has released a set of different analyses yielding SM and BSM scenarios by using data and mc samples collected during the run 1 and 2 at CERN (with an energy of center of mass equivalent to 8 TeV and 13 TeV). Currently, the collaboration is making a big effort to prepare the next release of data for a luminosity of  $36 \text{ fb}^{-1}$ , which will include some improvements compared to the previous releases (analyses, frameworks, programming tools, webpage, virtual machines, documentation, etc), to the scientific community for research and educational purposes and the idea of this talk is to have the chance to show some of these implementations to young and senior researches in the meeting that will take place in the COMHEP.

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