

Journées de Rencontre Jeunes Chercheurs 2023



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Type: Non spécifié

Simultaneous jet calibration with ML including in situ JER measurement

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In the current ATLAS jet calibration procedure, the GSC/GNNC methods are applied to improve the Jet Energy Resolution (JER) followed by various methods measuring the JER in situ and correcting it.

This project focuses on merging several aspects of the jet calibration chain, combining a NN-based calibration procedure with a loss function that minimises the JER directly in data. As a first step, the JER is approximated by the standard deviation of the dijet asymmetry. By merging several sequential calibration steps, the goal is to save the time and human resources required for deriving the final jet calibration and potentially improve the JER performance.

Orateur: BOGGIA, Laura Sara (CNRS)

Classification de Session: Standard Model

Classification de thématique: Standard Model