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Jet Reconstruction and Global Particle Flow in the ATLAS Experiment for Run 3 of the LHC

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In the ATLAS experiment, jets have been constructed using the calorimeter information. In a new algorithm called Particle Flow (PFlow), jets are reconstructed using the information from both the tracking system and the calorimeter. For Run-2 of the LHC, PFlow has been used and results in improved energy resolution. For Run-3, PFlow is being extended to reconstruct physical objects (electrons, muons, taus, photons) other than jets, and referred to as global PFlow (GPFlow). PFlow reconstruction of jets has been modified to take a small step towards GPFlow.

Title

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