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Electron Trigger Performance and Efficiency Measurements in ATLAS Run 3

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Electron triggers are responsible for selecting events resulting of proton-proton collisions at the Large Hadron Collider and their performance is a key ingredient for many physics analyses with the ATLAS detector. This work presents recent studies of Run3 electron trigger efficiencies and the corresponding scale factors, which correct for small differences between data and simulated events. Efficiencies are obtained with the Tag&Probe method, using well-known physics processes such as the decay of the Z bosons to provide unbiased electron samples. Scale factors are then derived and provided as functions of kinematic and detector variables, ensuring reliable corrections to be used in physics analyses over a broad kinematic range.

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