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Jet production cross-section and jet properties in pp at $\sqrt{s} = 7$ TeV with the ATLAS detector

Making use of the excellent calorimetry of the ATLAS experiment, measurements of the cross-section for jet production and of jet properties in proton-proton interactions at $\sqrt{s} = 7$ TeV will be presented. The corrected and unfolded inclusive cross-section for high- p_T jets will be described, together with the cross-section as a function of the invariant di-jet mass. Special emphasis will be given to the discussion of the initial understanding of the jet energy scale. Furthermore, the corrected distribution of the angular difference between the two leading jets will be shown, both for the azimuthal as well as for the polar angle. Also studies of the shape of the observed jets will be presented. All results will be compared to theoretical predictions.

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