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Jet Energy Scale at D0

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Summary

The talk will present the overview of the jet energy calibration procedure at D0 followed by the discussion of systematic uncertainties and the validation studies. An extension of previously used methods together with careful treatment of additional biases yields significant improvements in the precision which reached the level of 1-1.5% over a wide range of jet energies and rapidities. The results obtained have a direct impact on the quality of physics measurements, because the jet energy scale calibration is a leading systematic uncertainty in many measurements. The procedures developed and the experience gained at the Tevatron could benefit LHC experiments.

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