

Jet reconstruction and spectroscopy at hadron colliders

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LHC bounds on extra-large dimensions

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We will discuss the new dominant bounds that can be derived on the coefficient of the effective operator generated by tree-level graviton exchange in large extra dimensions from pp -> jj data at LHC: $M_T > 2.1$ TeV (ATLAS after 3.1/pb of integrated luminosity), $M_T > 3.4$ TeV (CMS after 36/pb). We clarify the role of on-shell graviton exchange and compare the full graviton amplitude to data, setting bounds on the fundamental quantum-gravity scale.

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