

CMS

19.8 fb⁻¹ (8 TeV)

$[\text{d}\sigma(\text{Z}+\text{b}) / \text{d}H_{\text{T}}] / [\text{d}\sigma(\text{Z}+\text{j}) / \text{d}H_{\text{T}}] (\%)$

$\text{Z}/\gamma^*(\rightarrow \text{ll}) + \text{at least 1 b jet}$

anti- k_{T} ($R = 0.5$) jets

$p_{\text{T}}^{\text{jet}} > 30 \text{ GeV}, |\eta^{\text{jet}}| < 2.4$

—△— Data

— MadGraph 5FS + Pythia6

— MadGraph 4FS + Pythia6

— MadGraph-aMC@NLO + Pythia8

— Powheg MINLO + Pythia8

Theory / Data

MadGraph 5FS + Pythia6, normalized to σ_{NNLO} , stat. uncertainty only

MadGraph 4FS + Pythia6, normalized to σ_{NLO} , stat. uncertainty only

MadGraph-aMC@NLO + Pythia8, normalized to σ_{NLO} , stat. + syst. uncertainties only

Powheg MINLO + Pythia8, normalized to σ_{NLO} , stat. +syst. uncertainties only

H_{T} (GeV)

