

Background	• Nonprompt leptons: 20% • Charge mismeasurement: CFR fitting models 2–7%, closure test 6%, electron energy shifts 0.7–1.5% • Conversions: 20%
Experimental	• Leptons: lepton ID 1–4%, electron reconstruction and energy correction , muon energy scale • Jets: Jet energy scale and resolution, Pileup jet ID, b tagging efficiency corrections • Luminosity: Overall 1.6%) • Other: Inelastic pp cross section $\pm 4.6\%$, trigger efficiencies, L1-prefiring inefficiency.
Theoretical	• Theory: PDF variations, α_S, renormalization/factorization scales, and parton shower modeling • Cross Sections: $t\bar{t}$ (4.4%), WZ (12%), ZZ (6.4%), $t\bar{t}Z$ (11.9%), $t\bar{t}W$ (13.3%), $t\bar{t}H$ (10.0%), tZ (5.2%). • Rare cross section: 50% for Triboson, ggF H, VBF H, VH .