

1 Fake closure tests

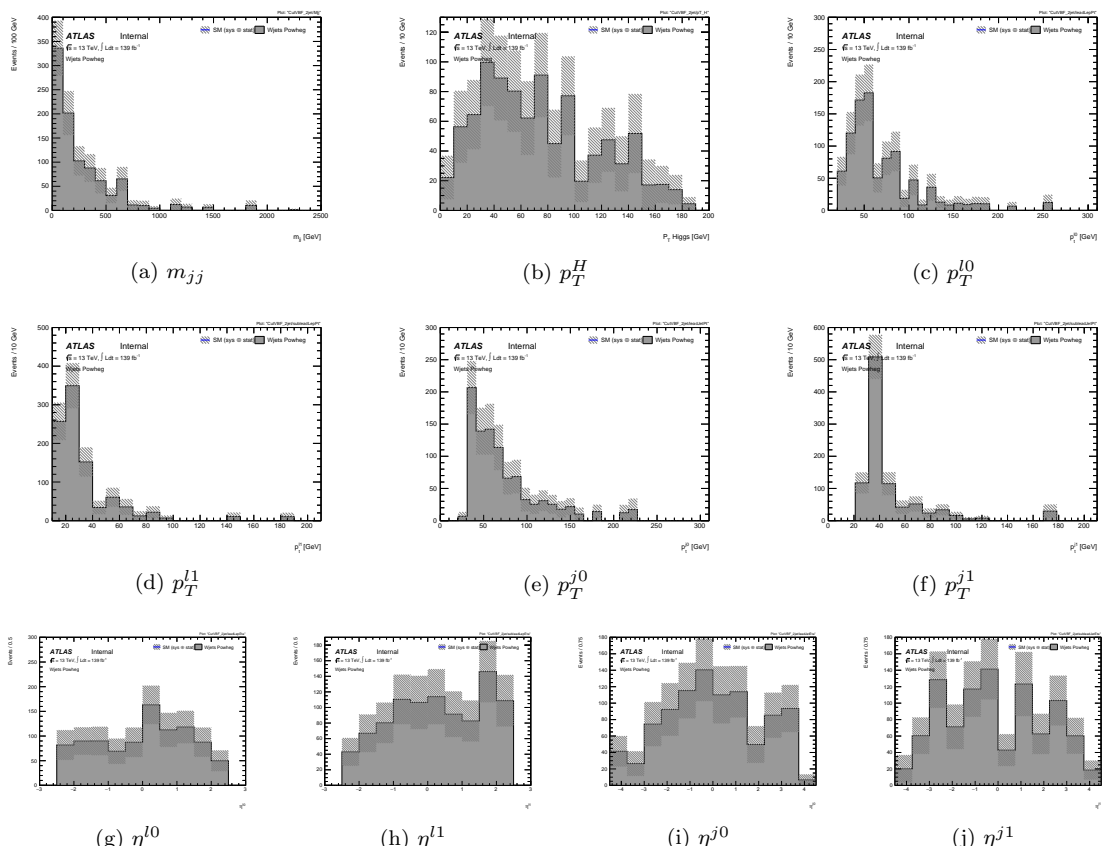


Figure 1: Distributions after preselection and 2-jets cuts for W +jets MC samples in the signal region (id-id).

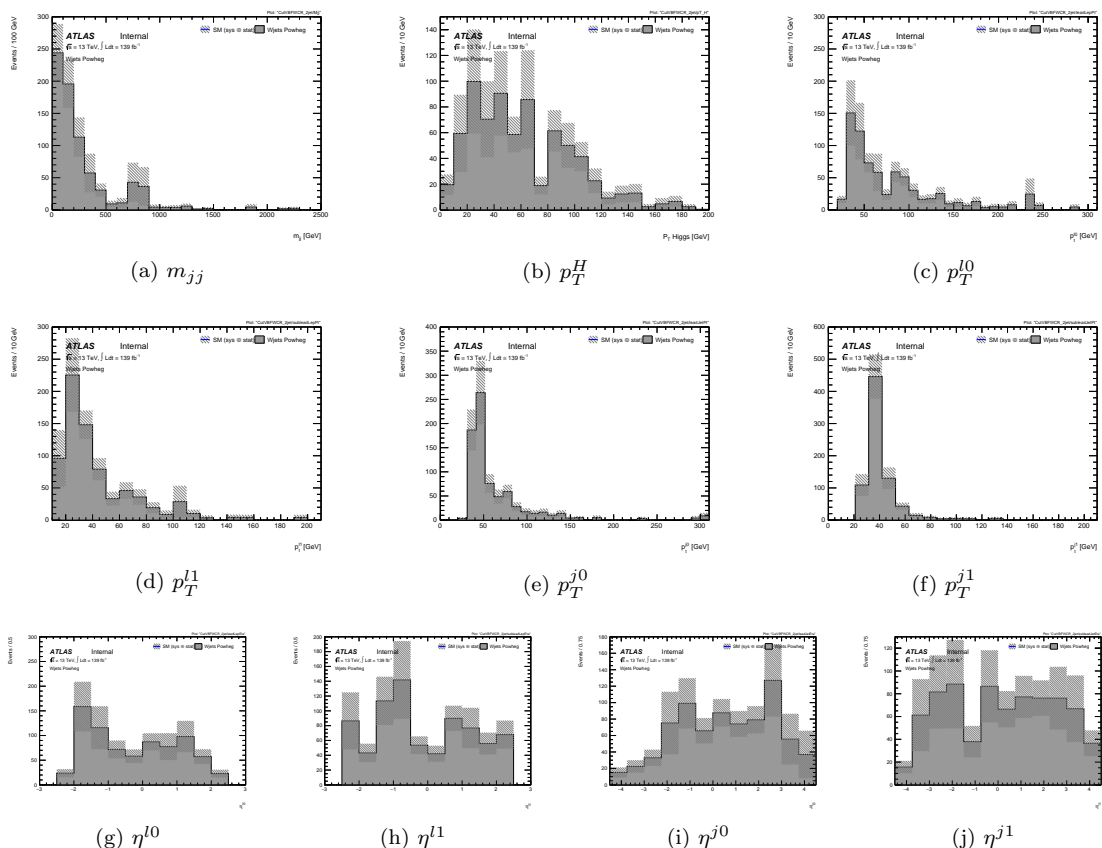


Figure 2: Distributions after preselection, FF and 2-jets cuts for W +jets MC samples in the W +jets control region (id-anti-id).

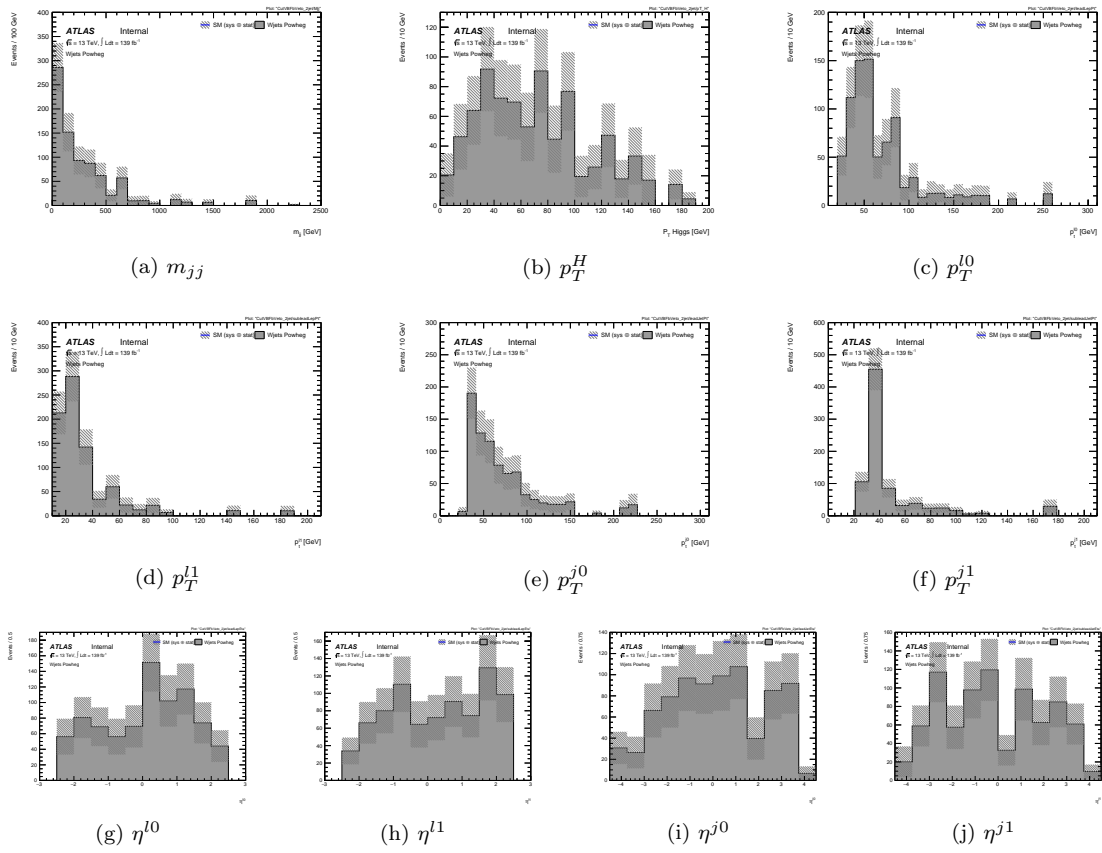


Figure 3: Distributions after preselection, 2-jets and b-veto cuts for W +jets MC samples in the signal region (id-id).

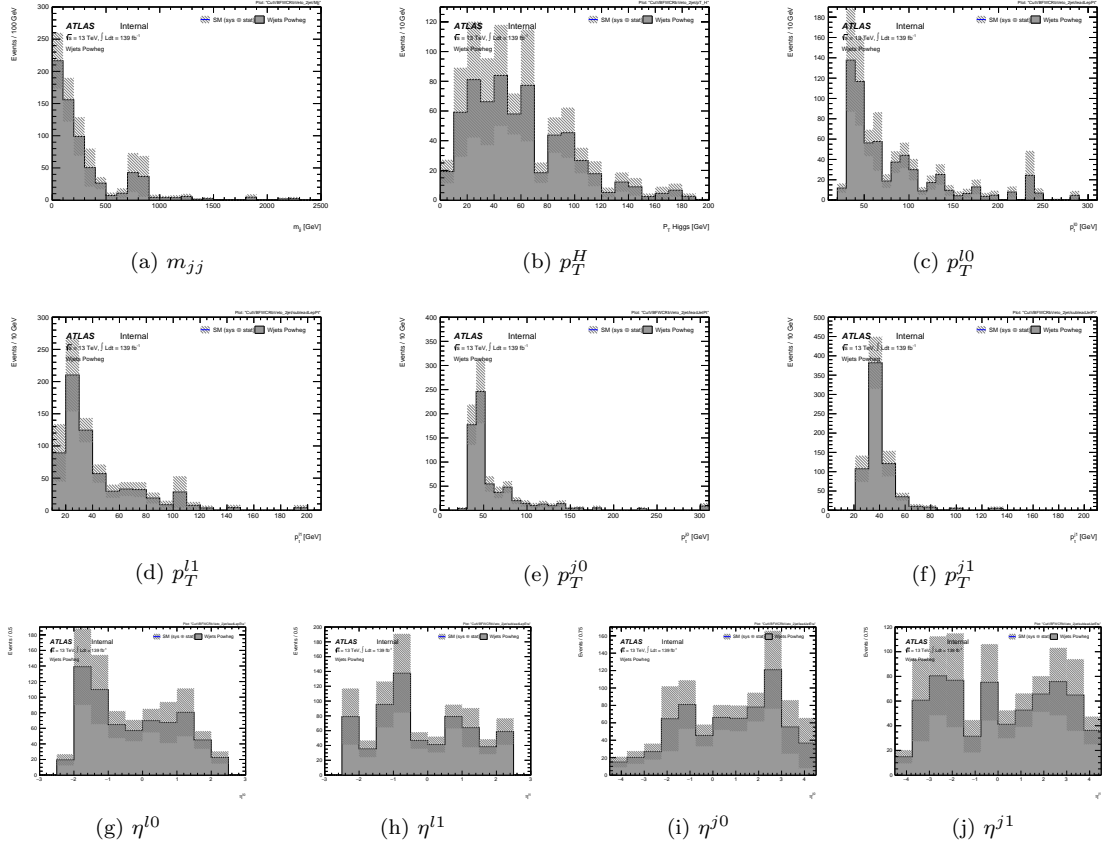


Figure 4: Distributions after preselection, FFs, 2-jets, and b-veto cuts for W +jets MC samples in the W +jets control region (id-anti-id).

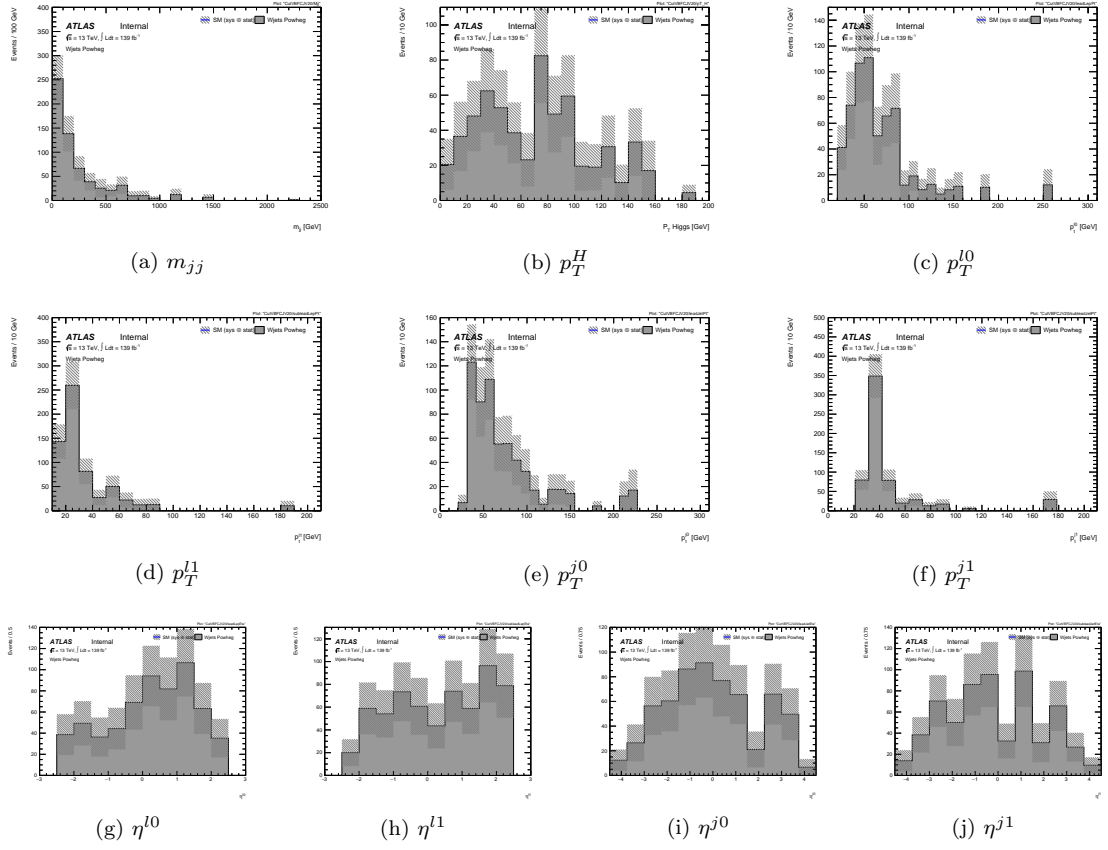


Figure 5: Distributions after preselection, 2-jets, b-veto and CJV cuts for W+jets MC samples in the signal region (id-id).

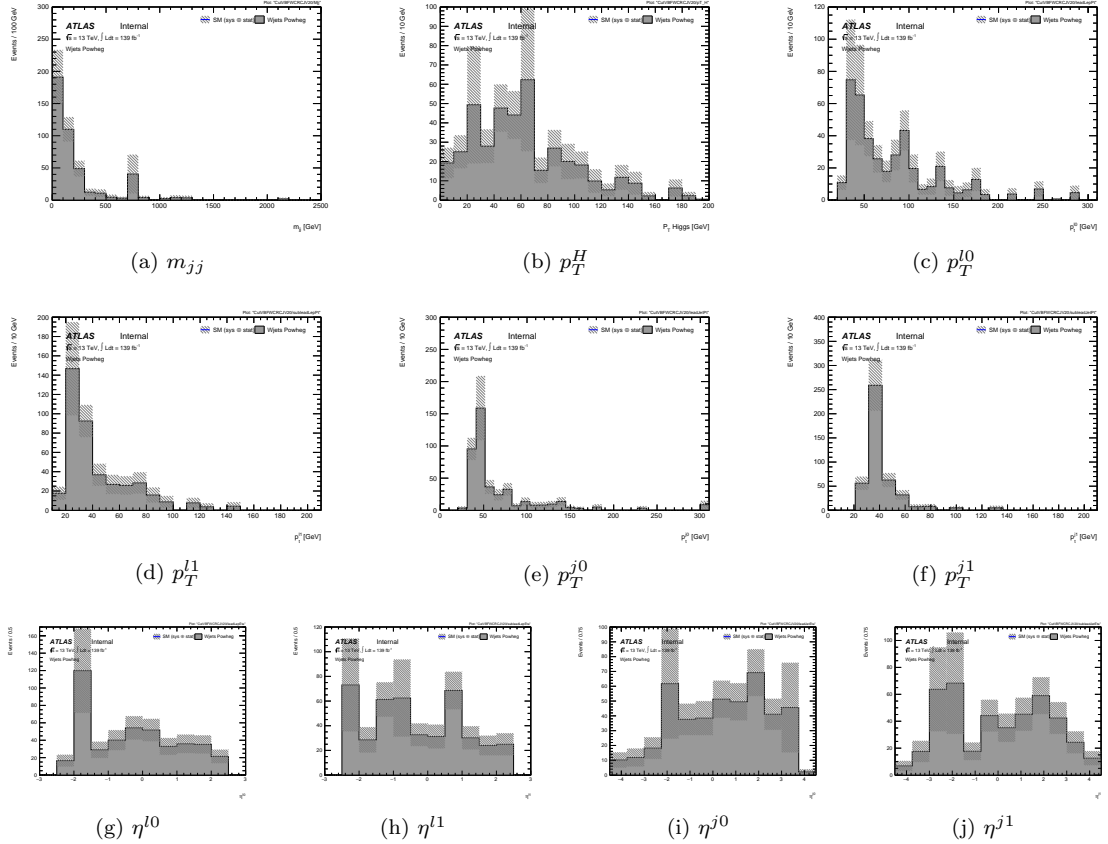


Figure 6: Distributions after preselection, FFs, 2-jets, b-veto and CJV cuts for W+jets MC samples in the W+jets control region (id-anti-id).

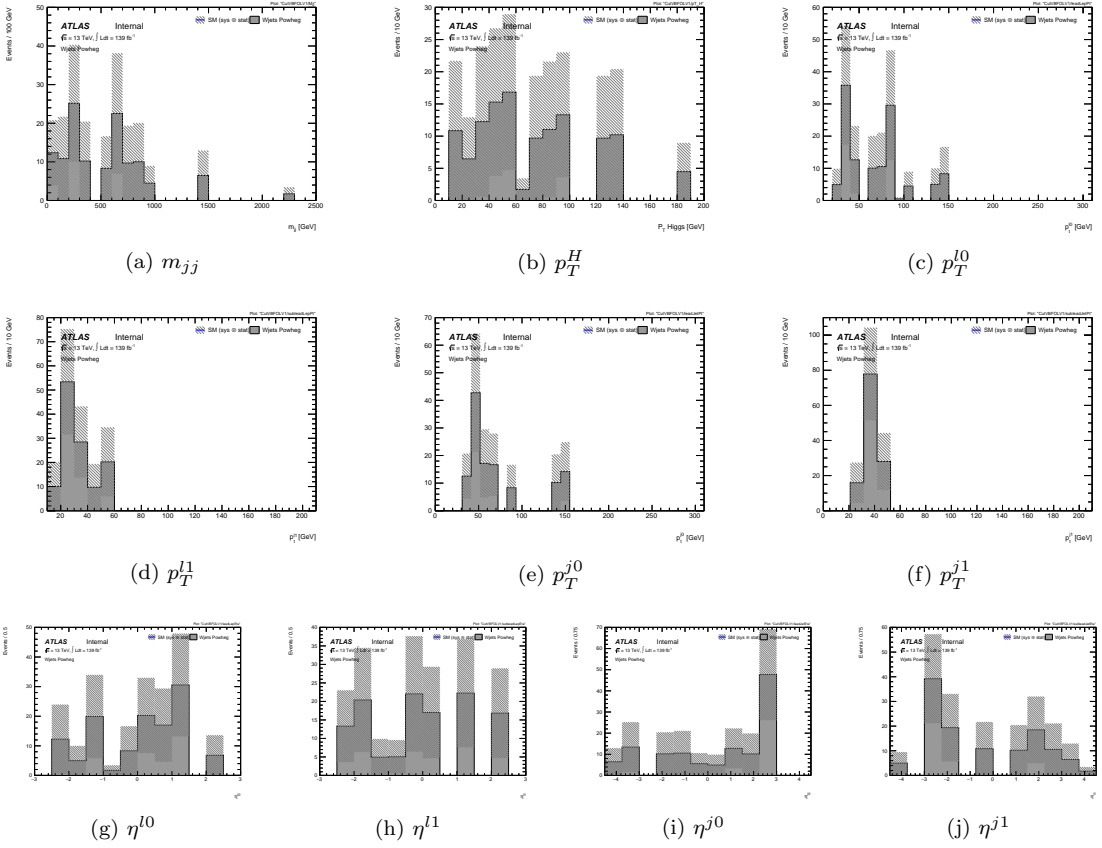


Figure 7: Distributions after preselection, 2-jets, b-veto, CJV and OLV cuts for W+jets MC samples in the signal region (id-id).

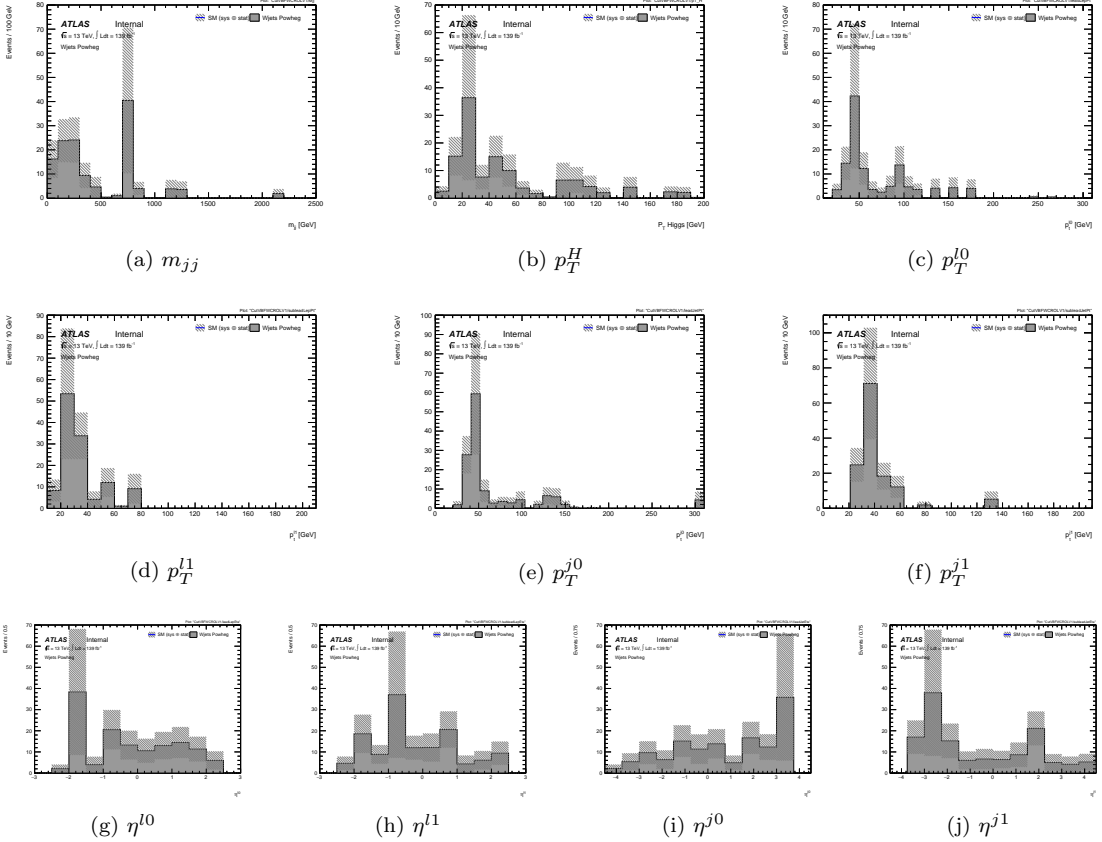


Figure 8: Distributions after preselection, FFs, 2-jets, b-veto, CJV and OLV cuts for W+jets MC samples in the W+jets control region (id-anti-id).

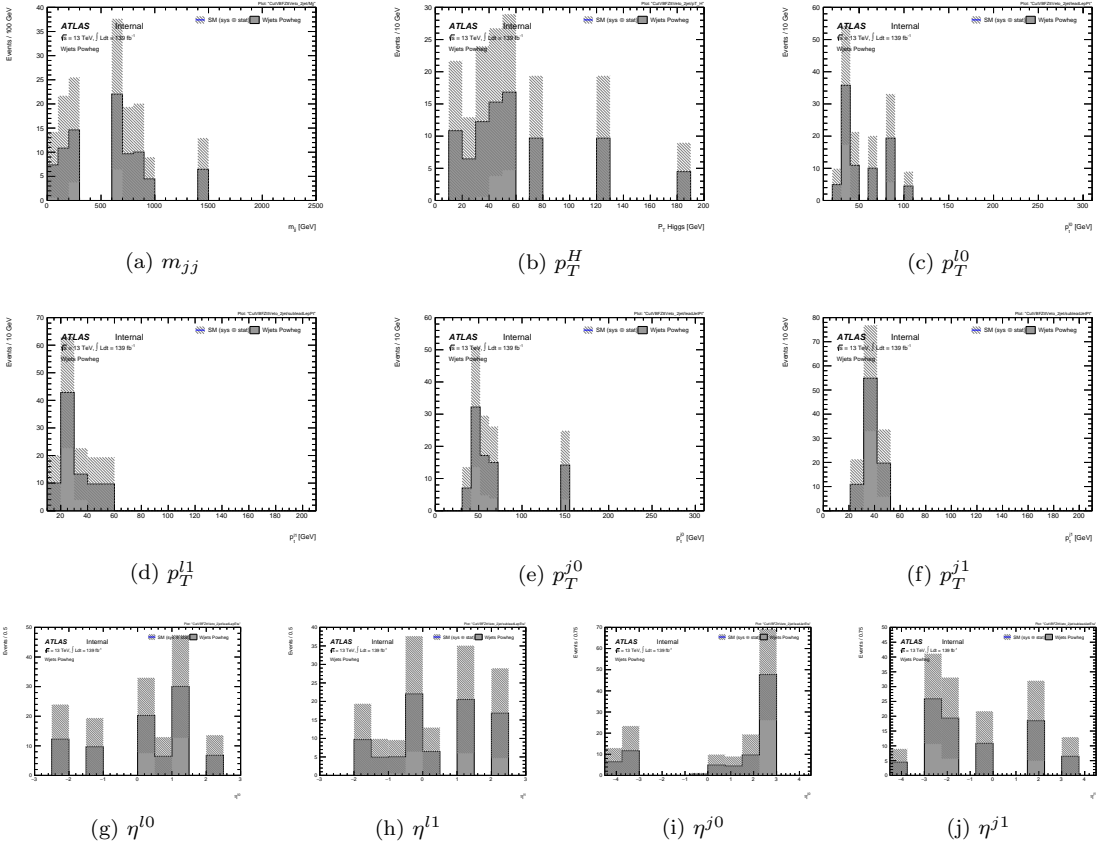


Figure 9: Distributions after preselection, 2-jets, b-veto, CJV, OLV and Z-veto cuts for W +jets MC samples in the signal region (id-id).

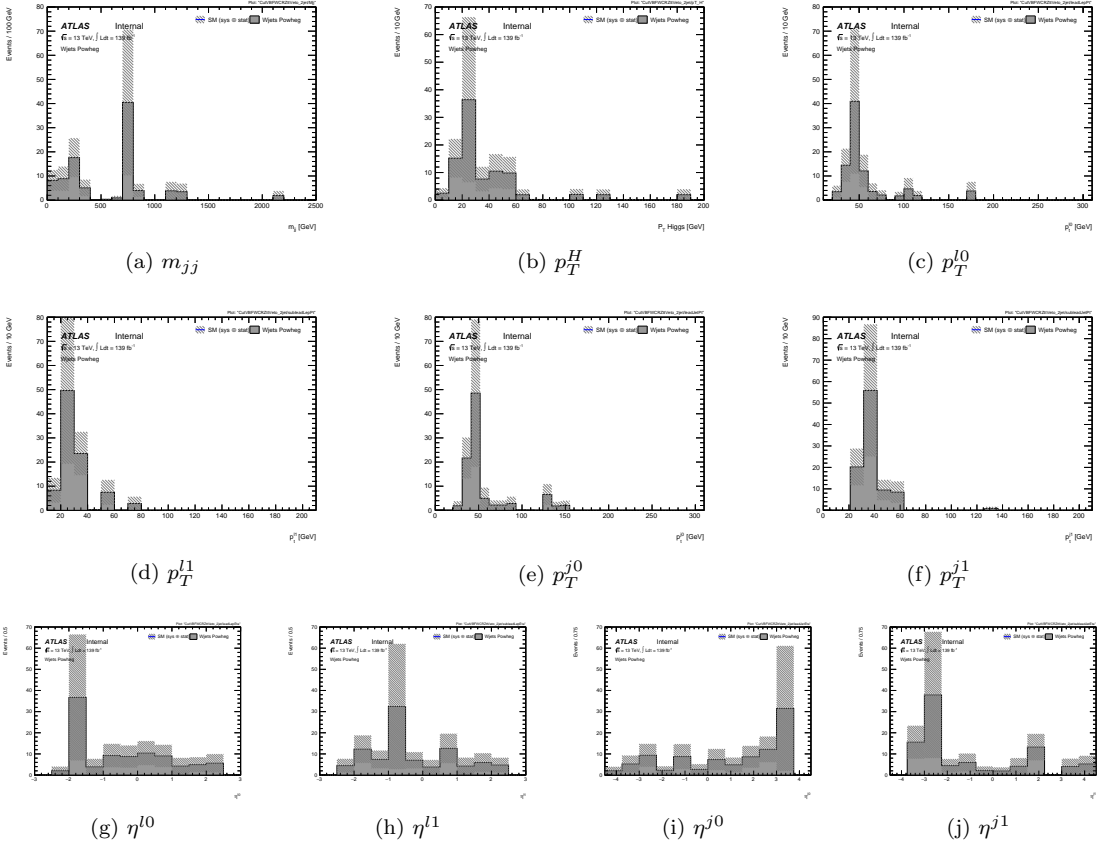


Figure 10: Distributions after preselection, FFs, 2-jets, b-veto, CJV, OLV, and Z-veto cuts for W +jets MC samples in the W +jets control region (id-anti-id).

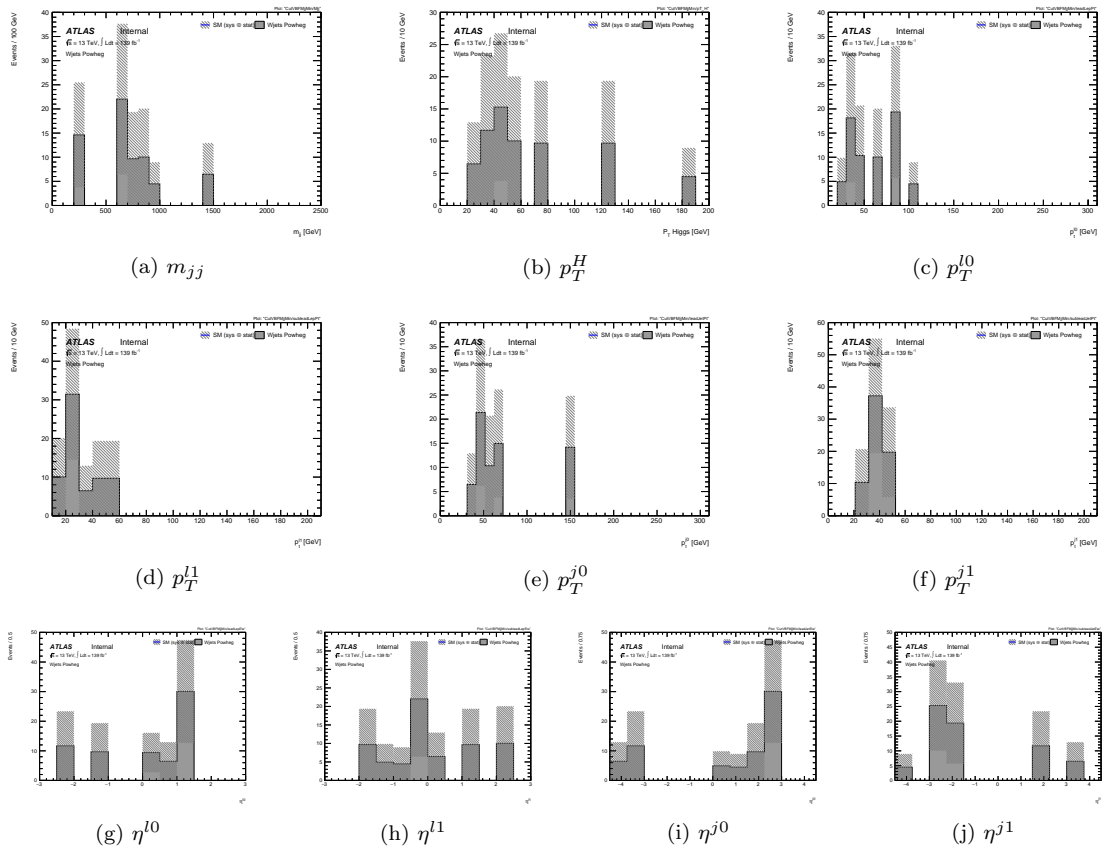


Figure 11: Distributions after preselection, 2-jets, b-veto, CJV, OLV, Z-veto and m_{jj} cuts for W +jets MC samples in the signal region (id-id).

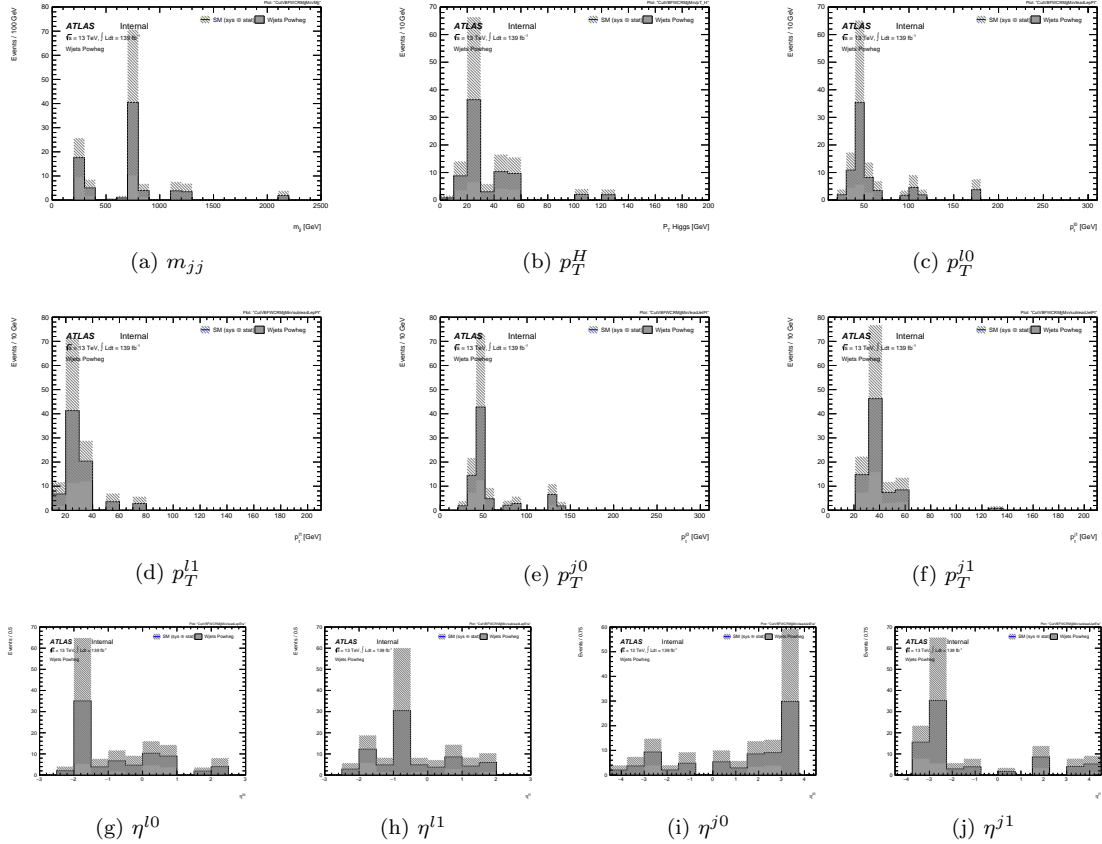


Figure 12: Distributions after preselection, FFs, 2-jets, b-veto, CJV, OLV, Z-veto and m_{jj} cuts for W +jets MC samples in the W +jets control region (id-anti-id).

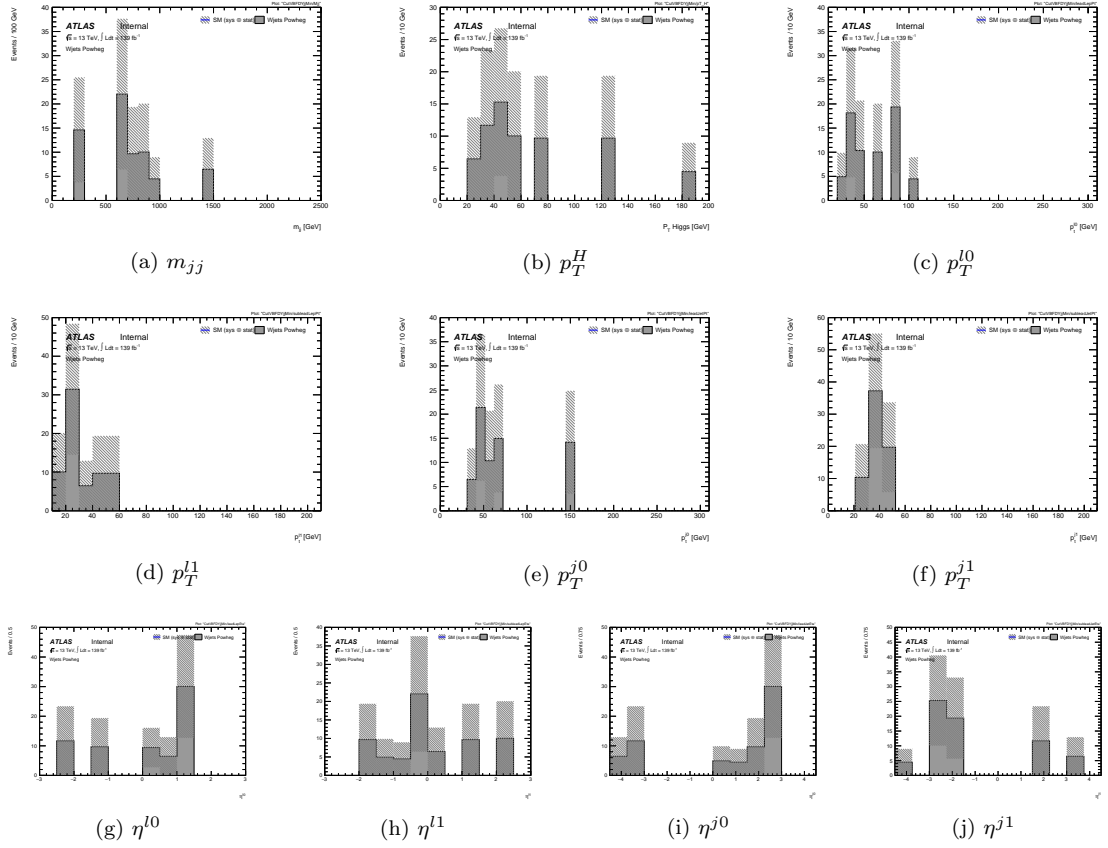


Figure 13: Distributions after preselection, 2-jets, b-veto, CJV, OLV, Z-veto, m_{jj} and ΔY_{jj} cuts for W+jets MC samples in the signal region (id-id).

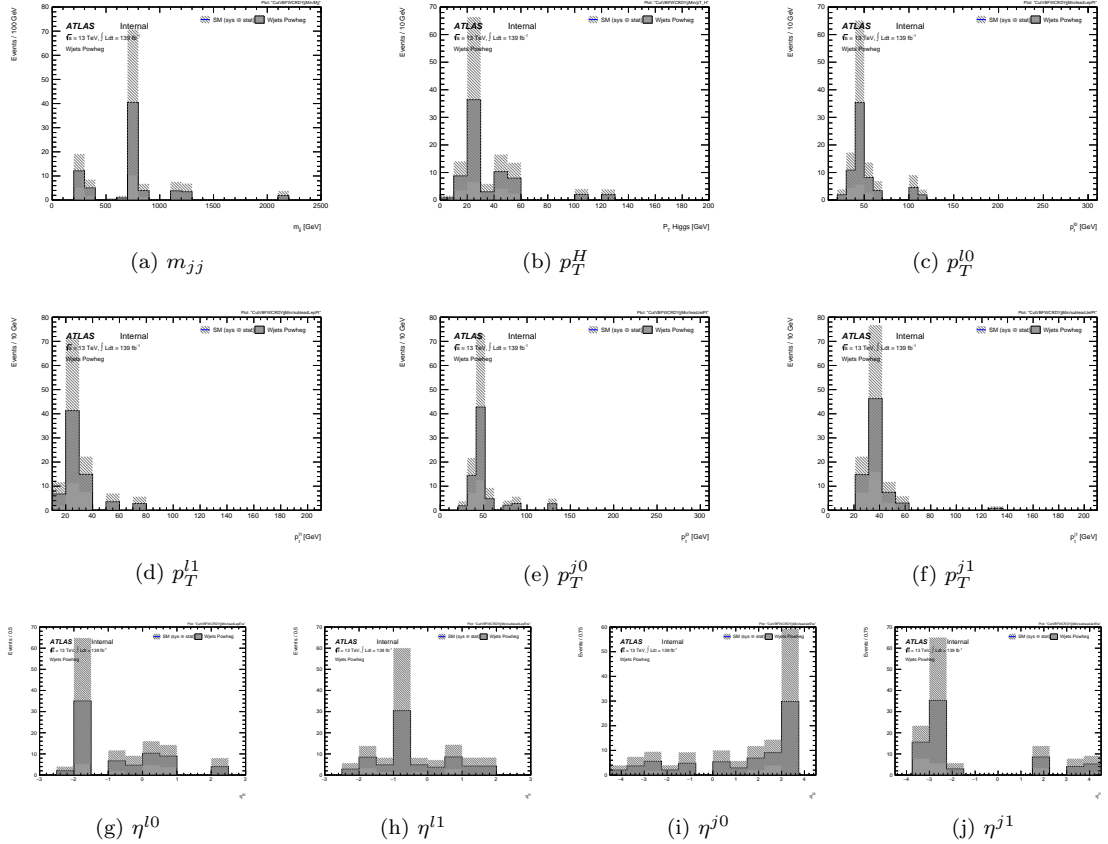


Figure 14: Distributions after preselection, FFs, 2-jets, b-veto, CJV, OLV, Z-veto, m_{jj} and ΔY_{jj} cuts for W+jets MC samples in the W+jets control region (id-anti-id).