

Measurement of associated production of vector bosons and $t\bar{t}$ in pp collisions at
 $\sqrt{s} = 7 \text{ TeV}$

—Supplemental Material—

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CERN
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Comparisons are provided between the data and the signal and background predictions, for events passing the full set of selection requirements. In Fig. 1 the com-

parisons are shown for the trilepton channel: the transverse momentum $p_T(Z)$ of the Z boson (left), the scalar sum H_T of all jet transverse momenta (center), and the missing transverse energy \cancel{E}_T , computed as the norm of the vectorial sum of all particle-flow candidates in the event (right). Fig. 2 shows the comparisons for the same-sign dilepton channel: leading lepton transverse momentum (left), H_T (center) and \cancel{E}_T (right).

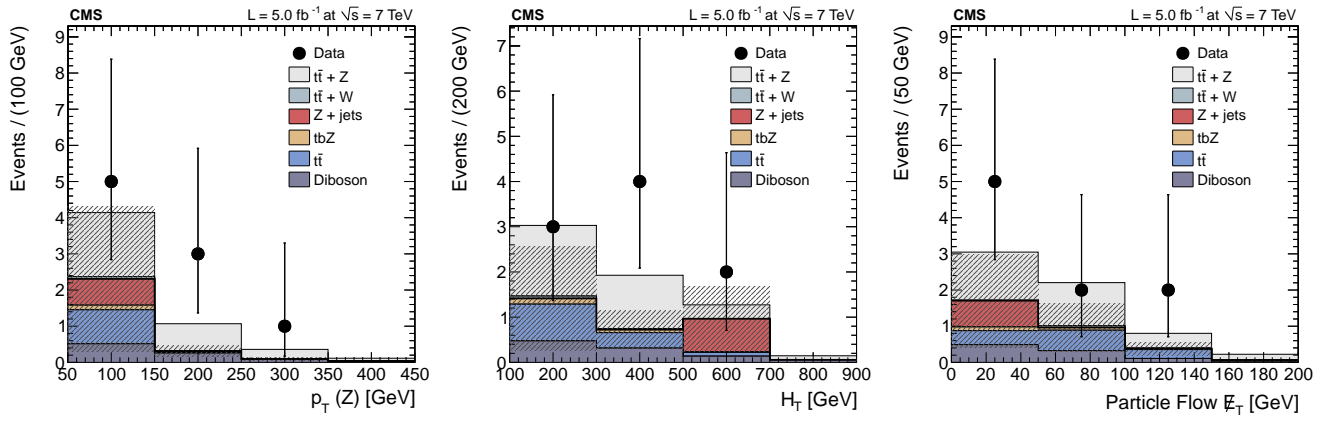


FIG. 1. Distributions of kinematic variables after final selection requirements for the tripleton analysis: transverse momentum of the Z boson (left), H_T (center) and \cancel{E}_T (right). The uncertainty on the background yield is superimposed with a grey hashed band.

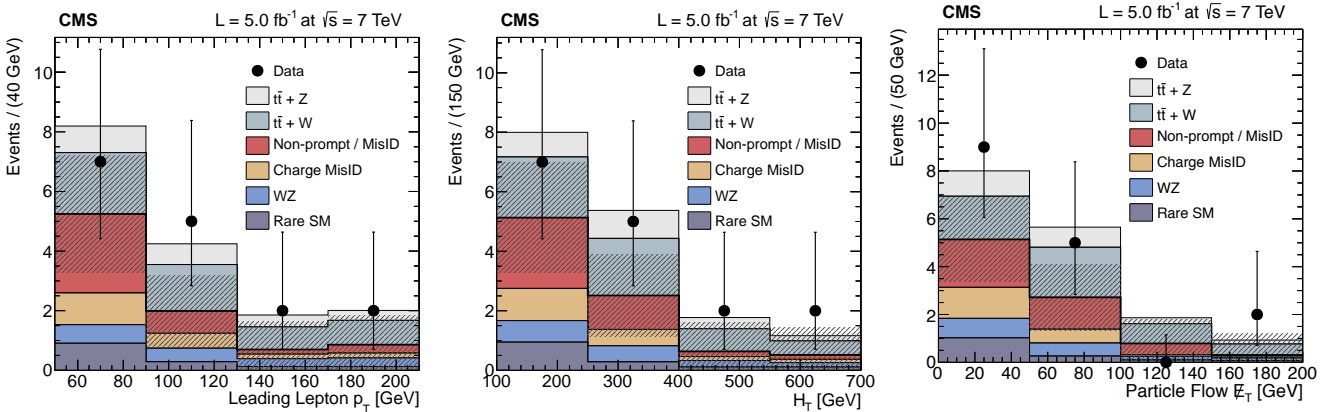


FIG. 2. Distributions of kinematic variables after final selection requirements for the same-sign dilepton analysis: leading lepton transverse momentum (left), H_T (center) and \cancel{E}_T (right). The uncertainty on the background yield is superimposed with a grey hashed band.