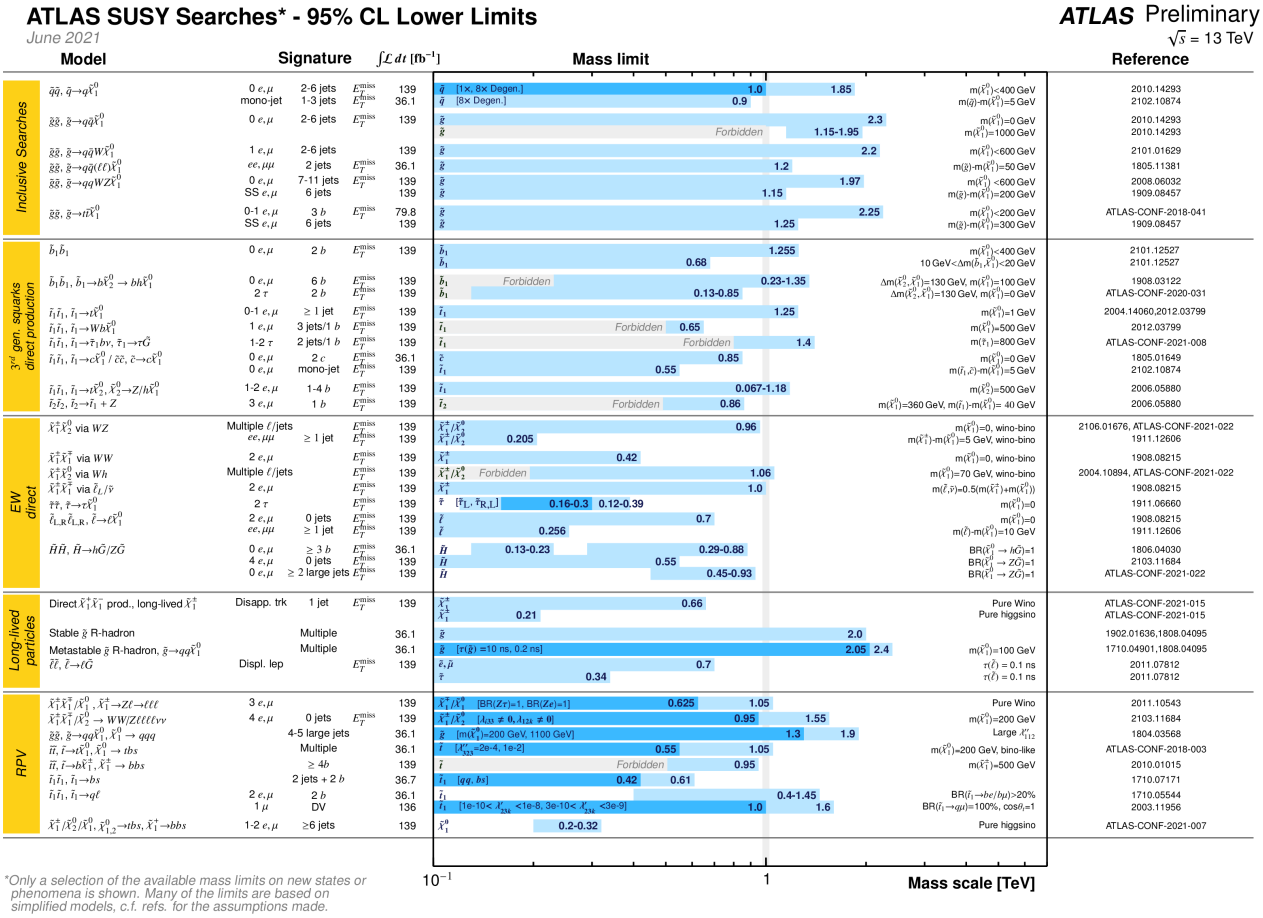
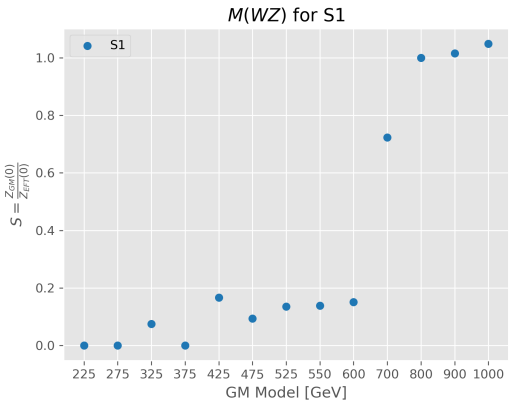
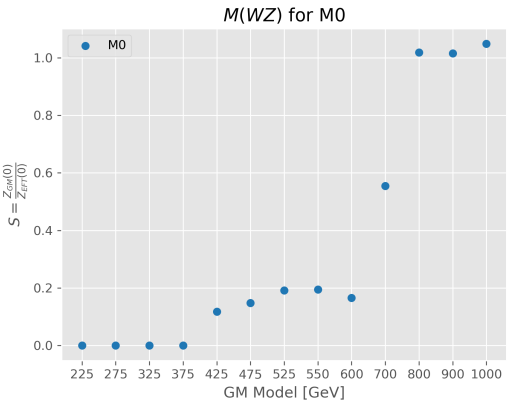
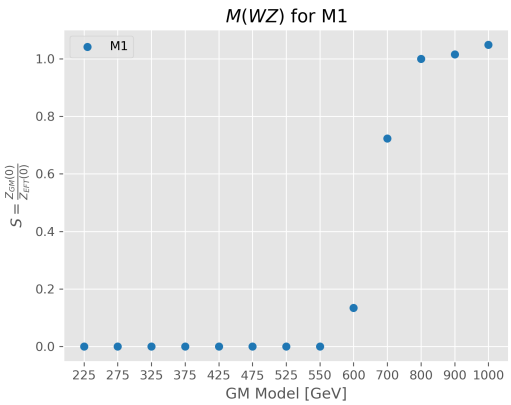


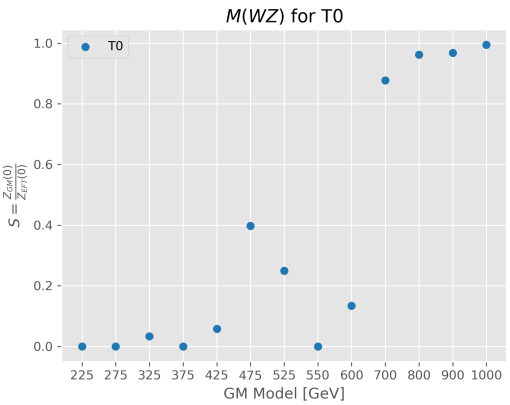
Figure 0.1: Example for SUSY as BSM Model. All particles shown here have been rejected as they should have been found using described methods in BSM search. [**.07.06.2021**]

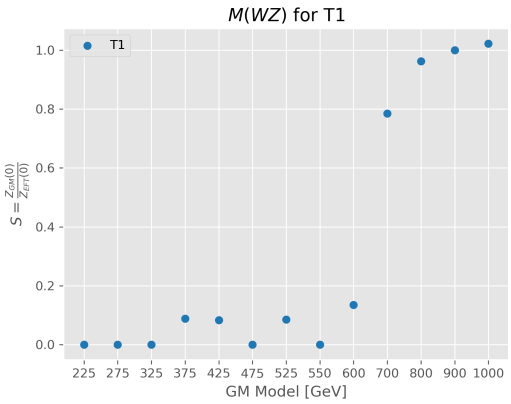
0.1 Significance of dim-8 operators

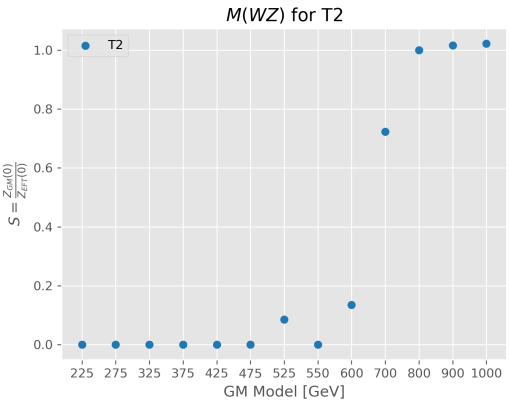


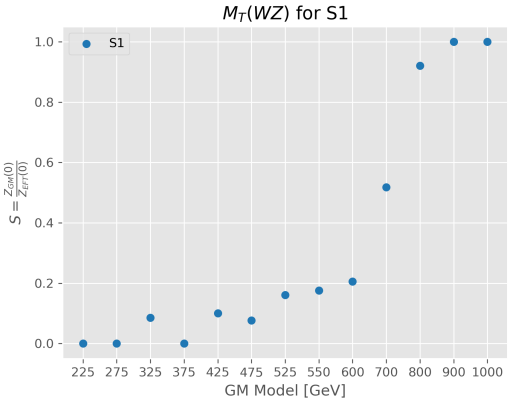


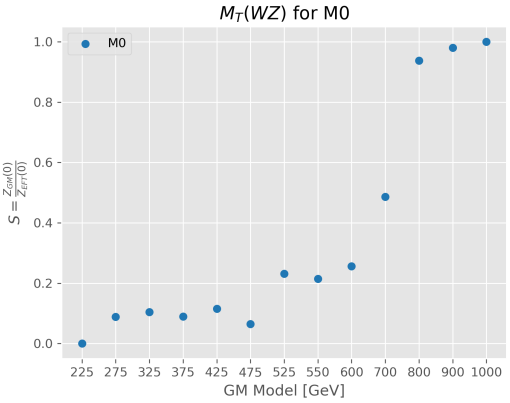


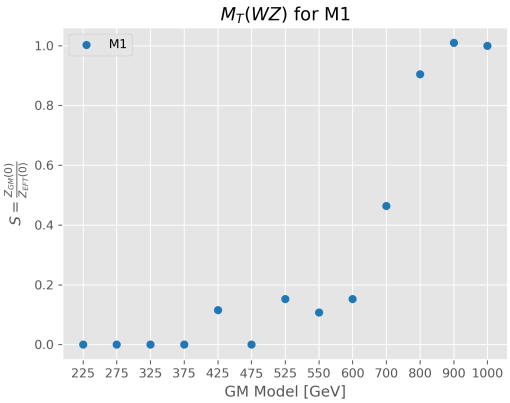


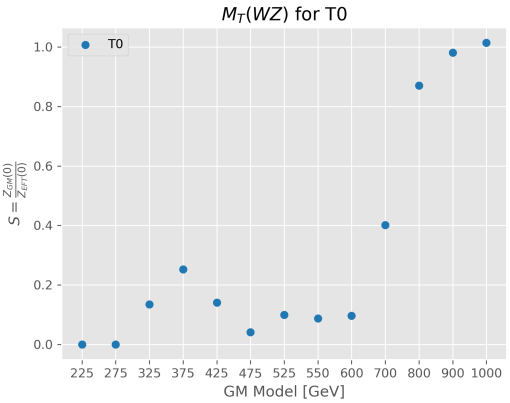


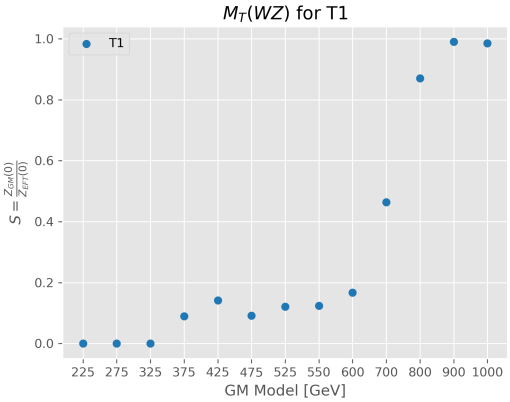


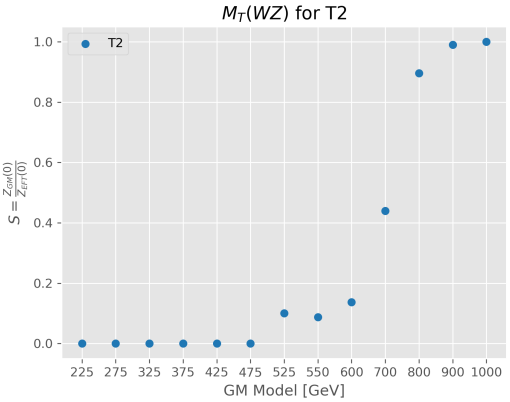

$M_T(WZ)$ for S1
S1
$S = \frac{Z_{SM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]


$M_T(WZ)$ for M0
M0
$S = \frac{Z_{SM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]

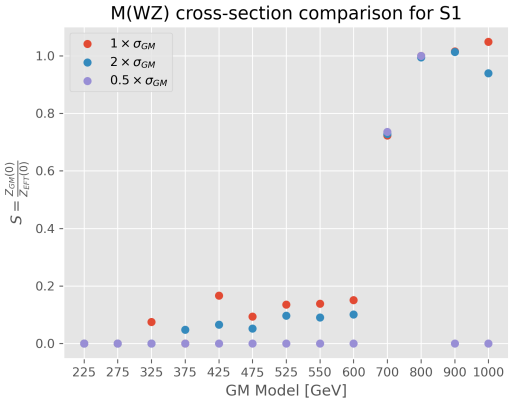

$M_T(WZ)$ for M1
M1
$S = \frac{Z_{SM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]

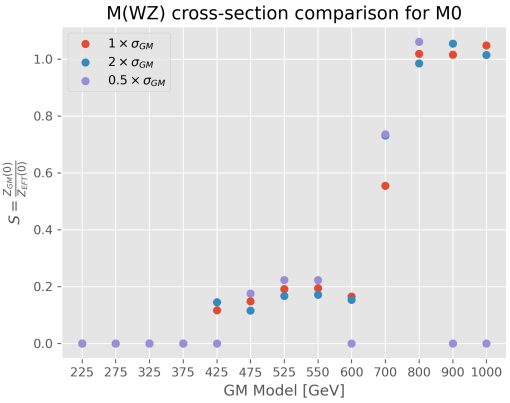

$M_T(WZ)$ for T0
T0
$S = \frac{Z_{SM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]

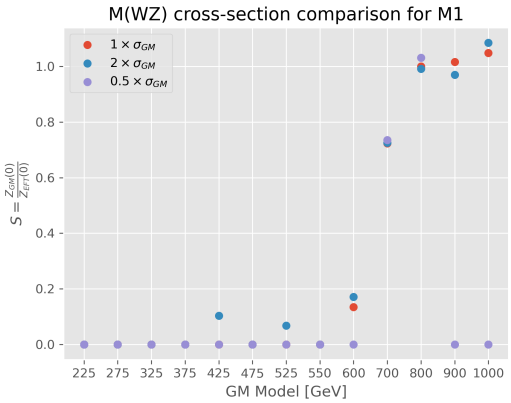

$M_T(WZ)$ for T1
T1
$S = \frac{Z_{SM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]

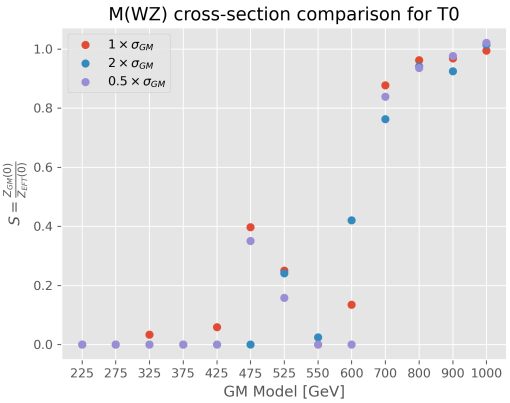

$M_T(WZ)$ for T2
T2
$S = \frac{Z_{SM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]

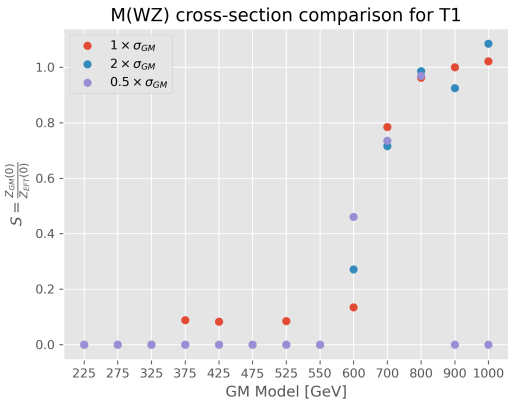
0.2 Cross-section comparison for dim-8 operators

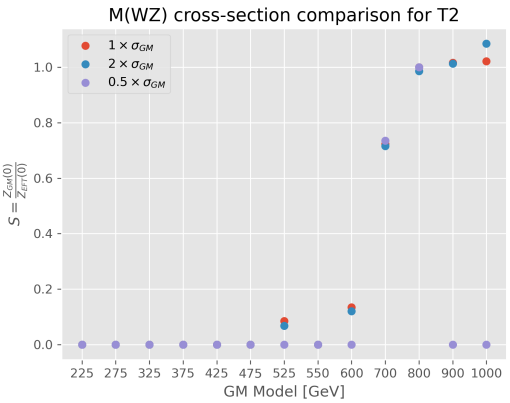


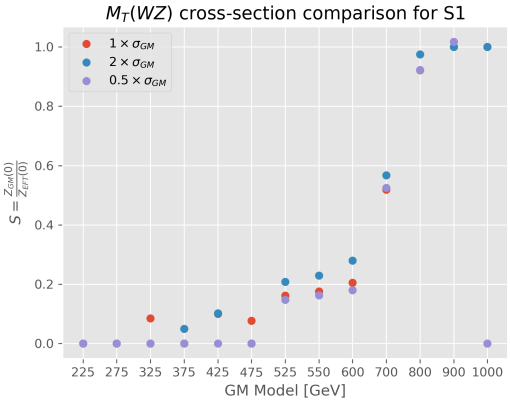


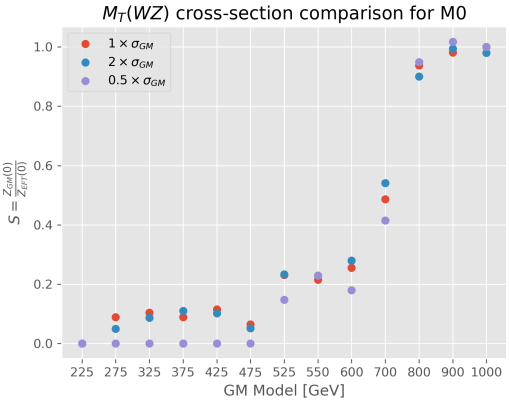


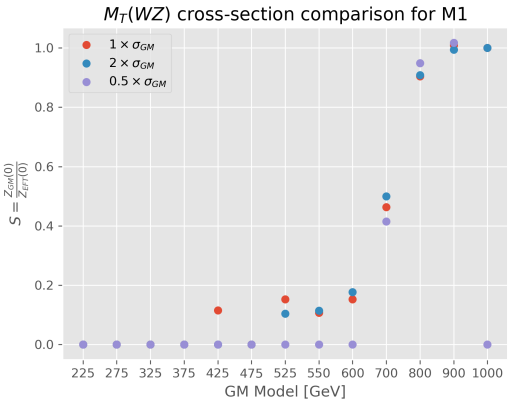


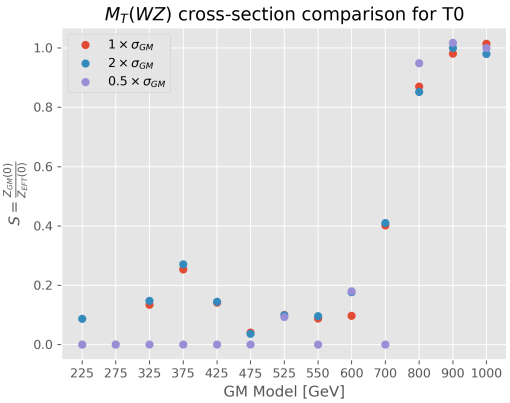


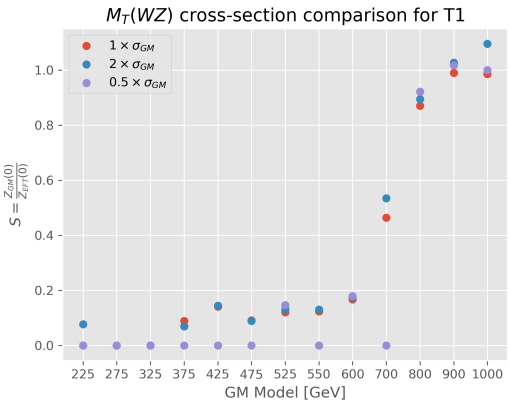


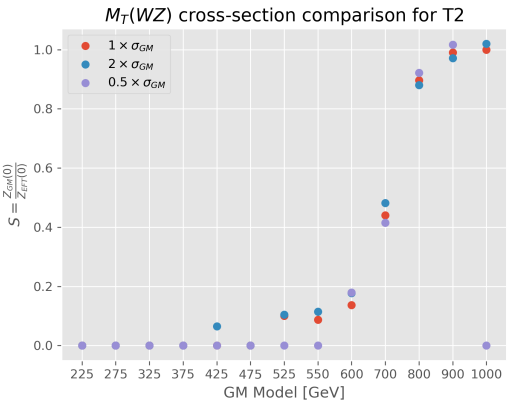

$M_T(WZ)$ cross-section comparison for S1
$1 \times \sigma_{GM}$
$2 \times \sigma_{GM}$
$0.5 \times \sigma_{GM}$
$S = \frac{Z_{GM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]


$M_T(WZ)$ cross-section comparison for M0
$1 \times \sigma_{GM}$
$2 \times \sigma_{GM}$
$0.5 \times \sigma_{GM}$
$S = \frac{Z_{GM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]


$M_T(WZ)$ cross-section comparison for M1
$1 \times \sigma_{GM}$
$2 \times \sigma_{GM}$
$0.5 \times \sigma_{GM}$
$S = \frac{Z_{GM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]


$M_T(WZ)$ cross-section comparison for T0
$1 \times \sigma_{GM}$
$2 \times \sigma_{GM}$
$0.5 \times \sigma_{GM}$
$S = \frac{Z_{GM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]


$M_T(WZ)$ cross-section comparison for T1
$1 \times \sigma_{GM}$
$2 \times \sigma_{GM}$
$0.5 \times \sigma_{GM}$
$S = \frac{Z_{GM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]


$M_T(WZ)$ cross-section comparison for T2
$1 \times \sigma_{GM}$
$2 \times \sigma_{GM}$
$0.5 \times \sigma_{GM}$
$S = \frac{Z_{GM}(0)}{Z_{EFT}(0)}$
GM Model [GeV]

0.3 Resonances

0.3.1 900 GeV resonance

0.3.2 1000 GeV resonance

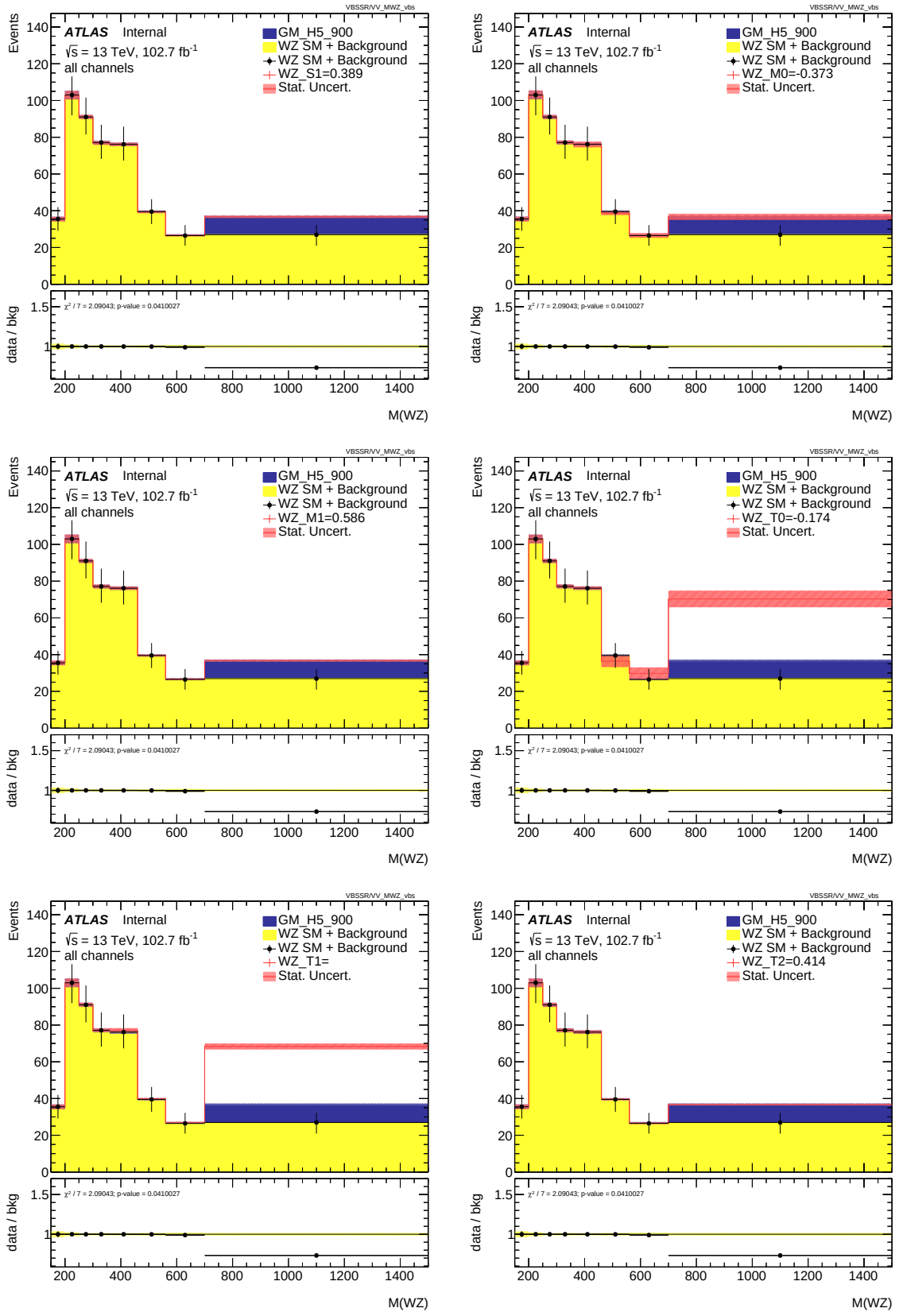


Figure 0.6: Invariant mass for parameters S1, M0, M1, T0, T1, T2 with best fit value for 900 GeV resonance

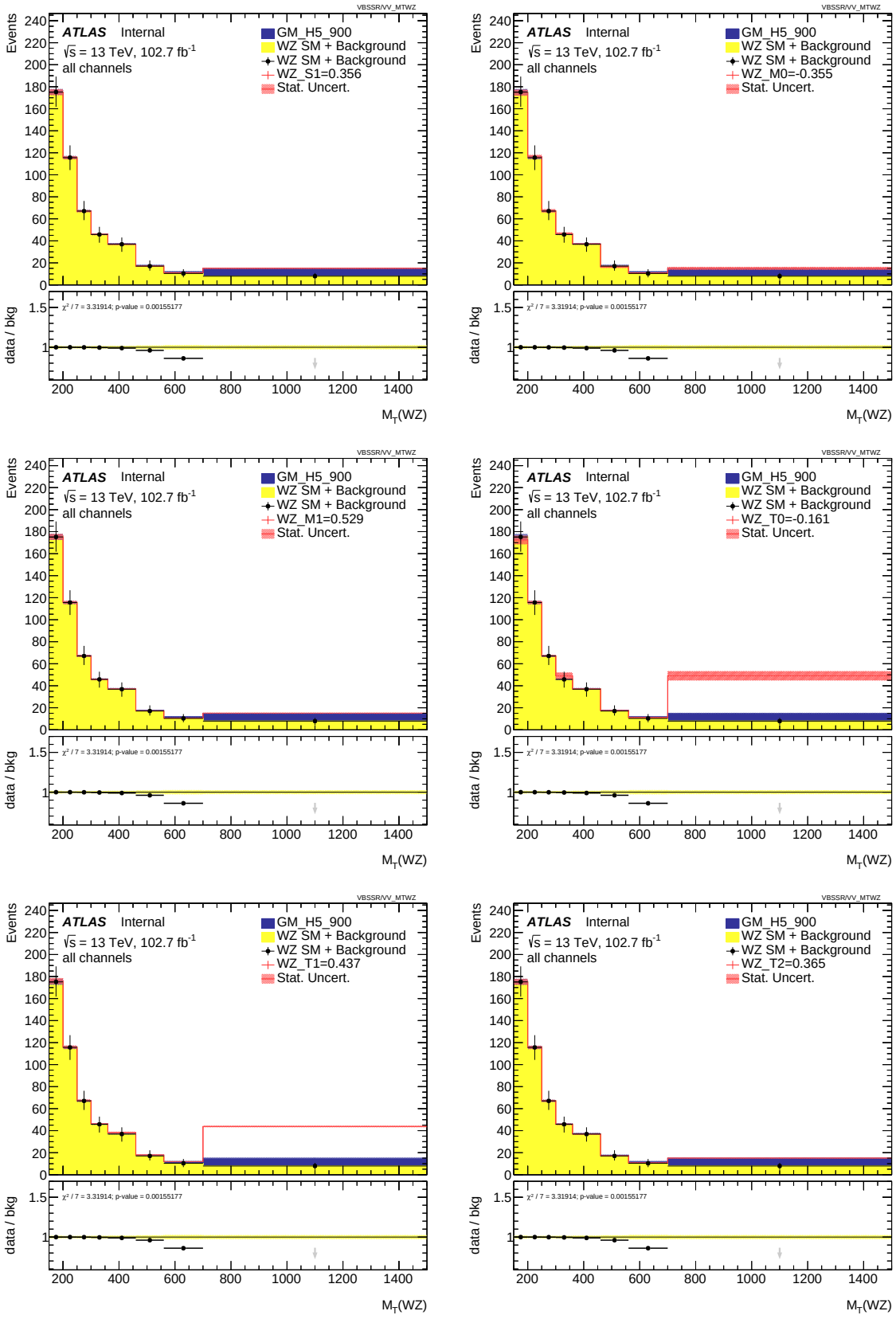


Figure 0.7: transverse mass for parameters S1, M0, M1, T0, T1, T2 with best fit value for 900 GeV resonance

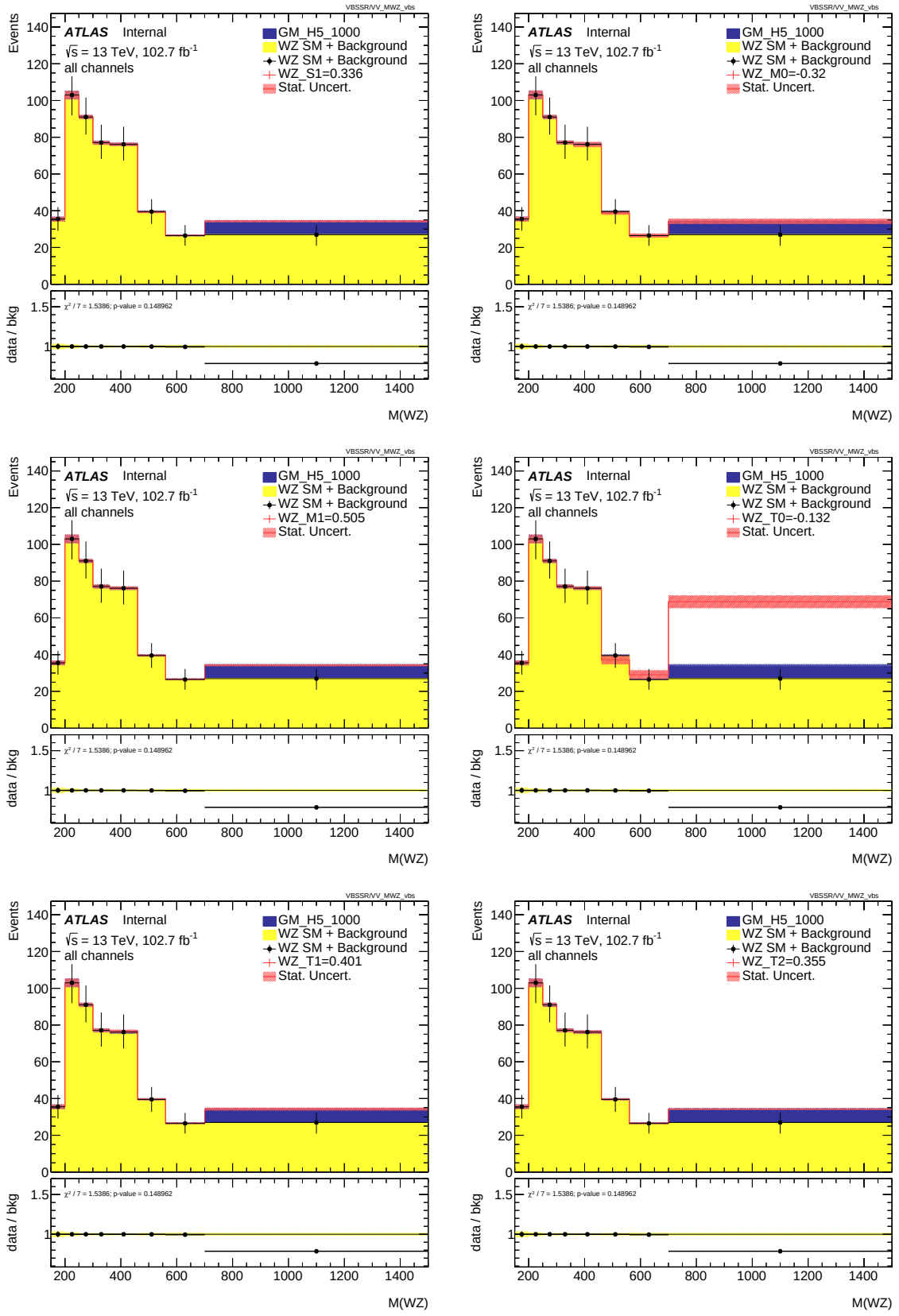


Figure 0.8: Invariant mass for parameters S1, M0, M1, T0, T1, T2 with best fit value for 1000 GeV resonance

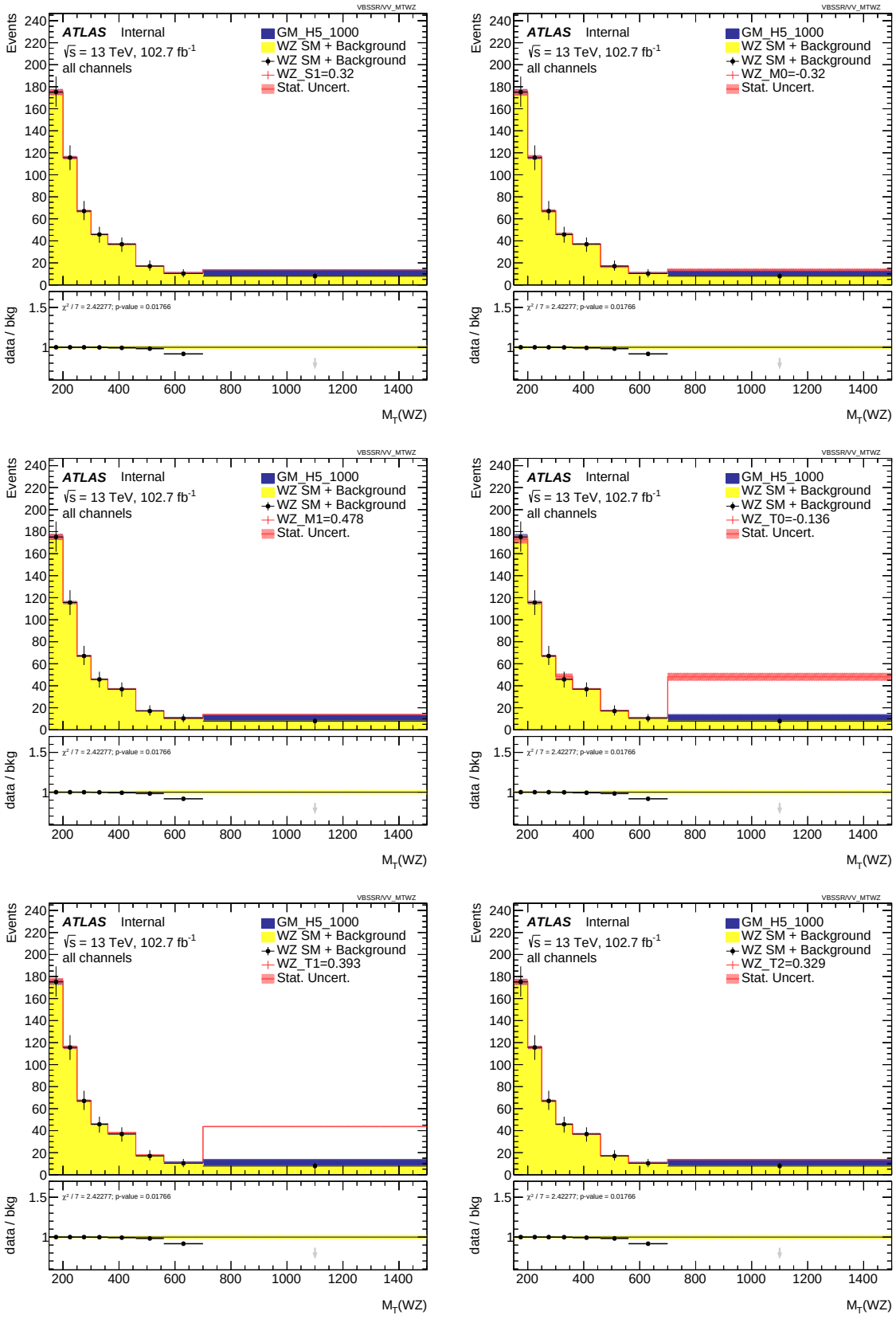


Figure 0.9: transverse mass for parameters S1, M0, M1, T0, T1, T2 with best fit value for 1000 GeV resonance