$35.9 \text{ fb}^{-1} (13 \text{ TeV})$ SVJ 3000 20 0.5 peak (MadGraph) SVJ 3000 50 0.3 peak (Pythia) SVJ 3000 20 0.5 peak (Pythia) SVJ 4000 20 0.3 peak (MadGraph) 10³ SVJ 3000_50_0.3_peak (MadGraph) SVJ_4000_20_0.3_peak (Pythia) Events / 100.00 10^{2} 10^{1} 10⁰ 10^{-1} MadGraph / Pythia SVJ_3000_20_0.5_peak ratio SVJ 3000 50 0.3 peak ratio SVJ 4000 20 0.3 peak ratio 1 0 0 500 1000 1500 2000 2500 3000 3500 4000 4500 m_{T} [GeV]