$35.9 \text{ fb}^{-1} (13 \text{ TeV})$ SVJ 1000 20 0.3 peak (MadGraph) SVJ 3000 20 0.1 peak (Pythia) 10⁶ SVJ 1000 20 0.3 peak (Pythia) SVJ 3000 20 0.9 peak (MadGraph) SVJ_3000_20_0.1_peak (MadGraph) SVJ_3000_20_0.9_peak (Pythia) 10⁵ 10^{4} Events / 0.21 10^{3} 10² 10^{1} 10⁰ 10^{-1} MadGraph / Pythia SVJ 1000 20 0.3 peak ratio SVJ 3000 20 0.1 peak ratio SVJ_3000_20_0.9_peak ratio

 $\phi(j_1)$