

DM & Background signal



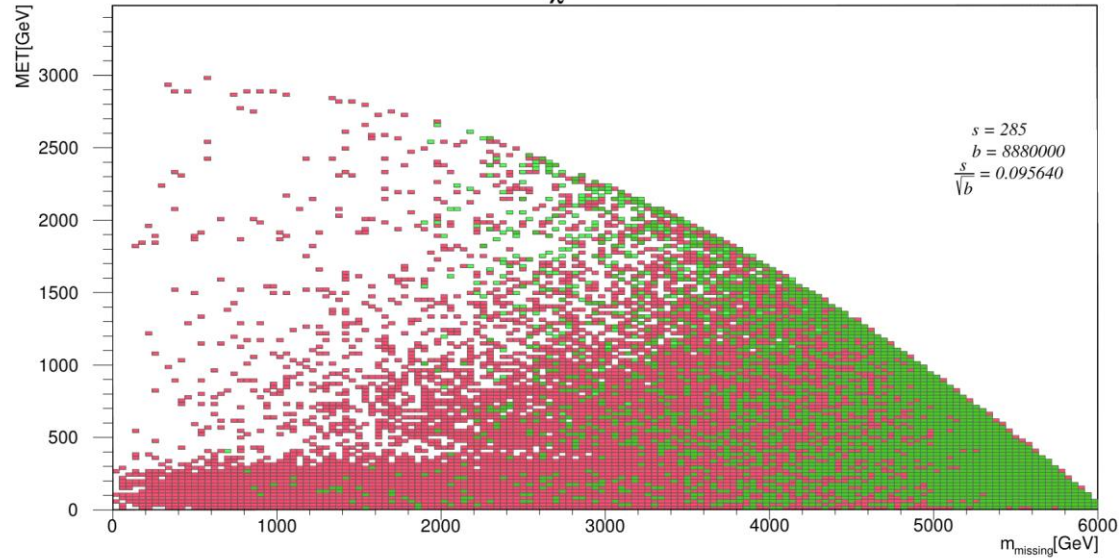
DM: $\mu^+\mu^- \rightarrow \chi\bar{\chi}Z$, $Z \rightarrow q\bar{q}, l^+l^-$

Background: $\mu^+\mu^- \rightarrow Z\nu\bar{\nu}$, $Z \rightarrow q\bar{q}, l^+l^-$

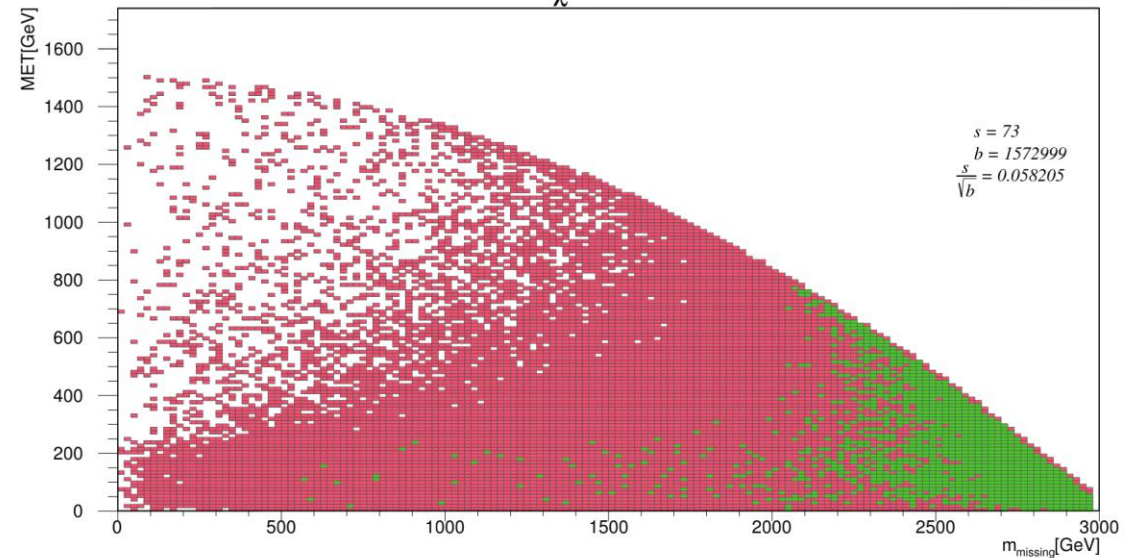
Missing Mass & Missing ET



$\sqrt{s} = 6\text{TeV}, m_\chi = 1\text{ TeV}, L = 4\text{ab}^{-1}$



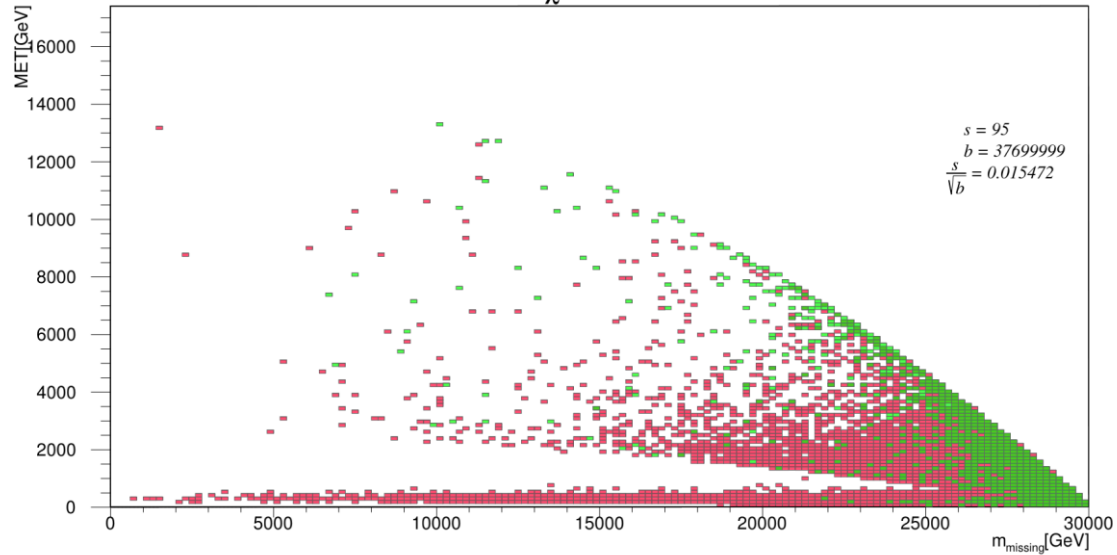
$\sqrt{s} = 3\text{TeV}, m_\chi = 1\text{ TeV}, L = 1\text{ab}^{-1}$



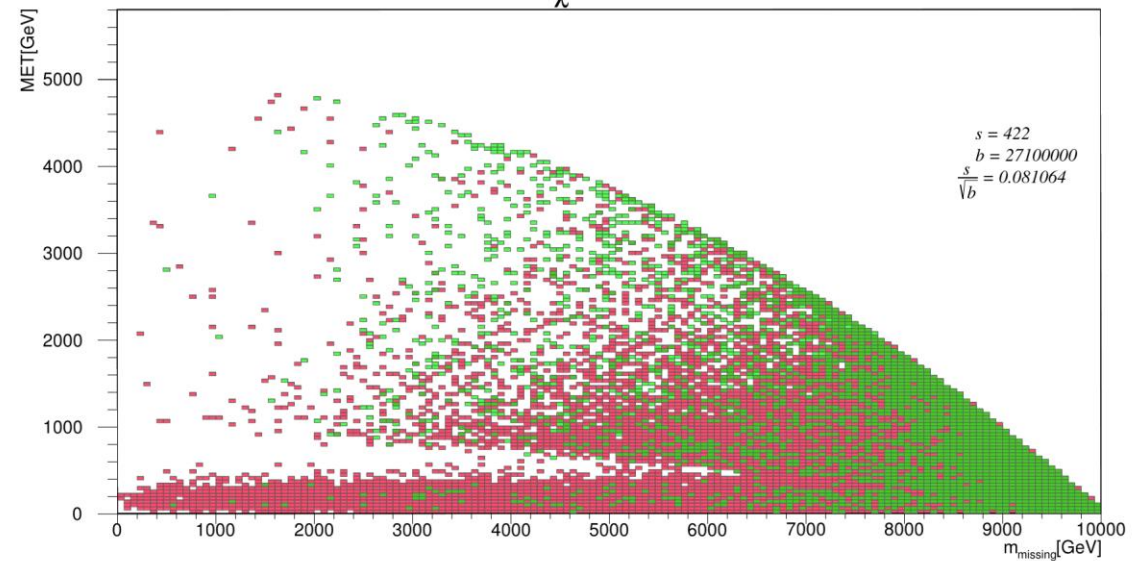
Missing Mass & Missing ET



$\sqrt{s} = 30\text{TeV}, m_\chi = 1\text{ TeV}, L = 10\text{ab}^{-1}$



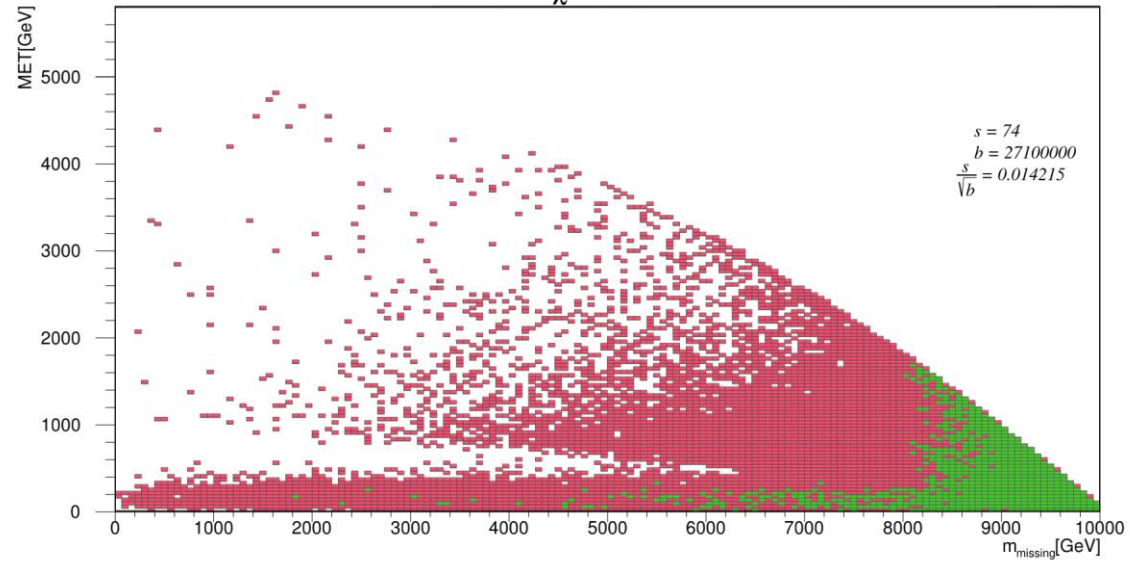
$\sqrt{s} = 10\text{TeV}, m_\chi = 1\text{ TeV}, L = 10\text{ab}^{-1}$



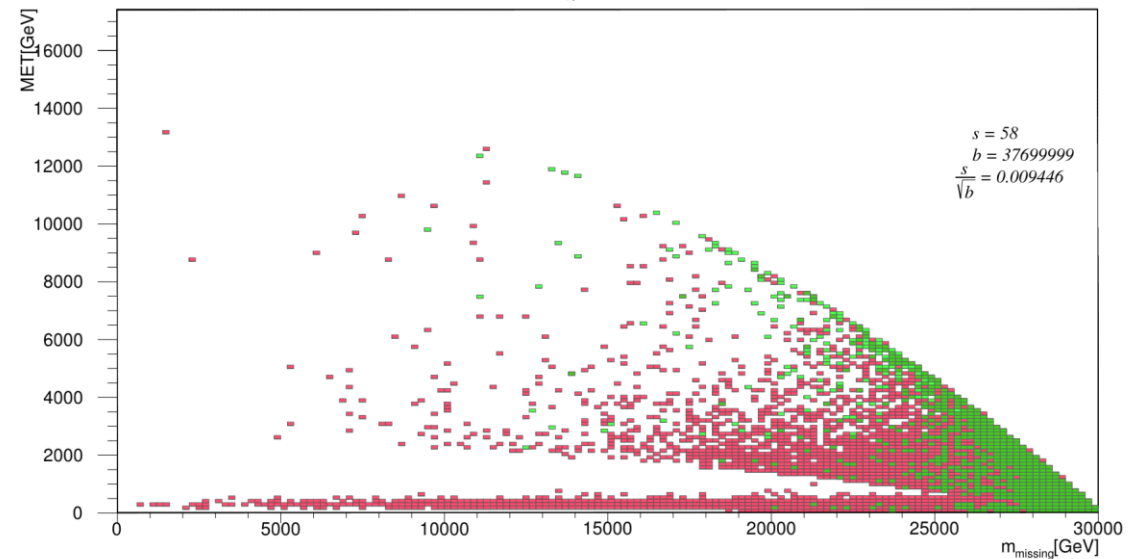
Missing Mass & Missing ET



$\sqrt{s} = 10\text{TeV}$, $m_\chi = 4\text{ TeV}$, $L = 10\text{ab}^{-1}$



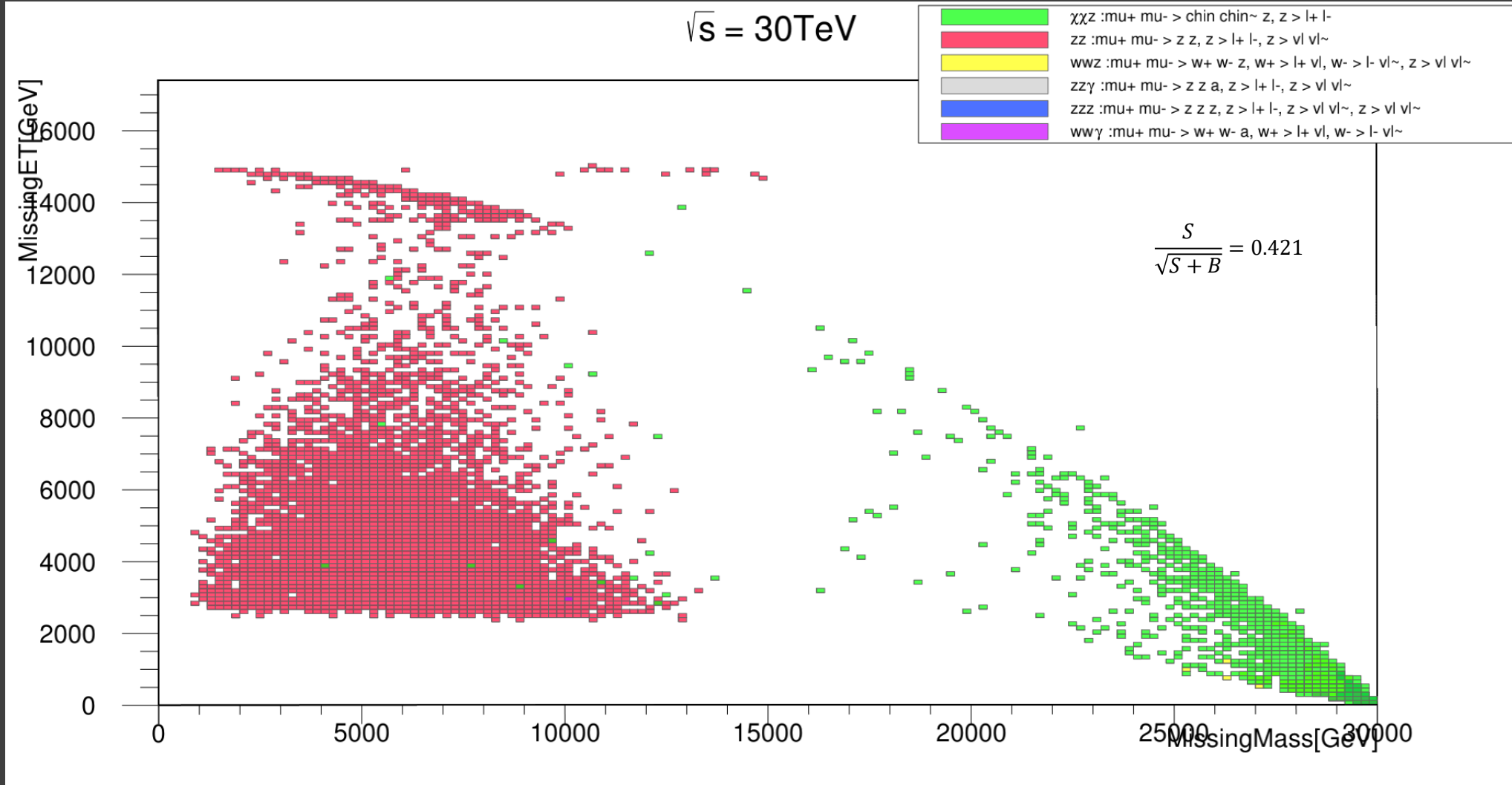
$\sqrt{s} = 30\text{TeV}$, $m_\chi = 4\text{ TeV}$, $L = 10\text{ab}^{-1}$



Backup



Missing Mass & Missing ET





Missing Mass & Missing ET

Selection: Missing ET < 1 TeV & Missing Mass > 1.6 TeV

