

**ATLAS** Internal

$$\int \mathcal{L} dt = 3.0 \text{ fb}^{-1}$$

- Toy Data ( $3.0 \text{ fb}^{-1}$ ,  $\sqrt{s} = 13 \text{ TeV}$ )
- Diboson WZ
- Rare
- $t\bar{t} + Z$
- Diboson WW
- $t\bar{t} + W$
- Reducible (top)
- Diboson ZZ
- Reducible (V+jets)
- $g \rightarrow t\bar{t}\chi_1^0$ ,  $m_{\tilde{\chi}_1^0} = 900$
- $g \rightarrow t\bar{t}\chi_1^0$  (RPV),  $m_{\tilde{\chi}_1^0} = 1100$
- $g \rightarrow t\bar{t}\chi_1^0$ ,  $m_{\tilde{\chi}_1^0} = 1300$ ,  $m_{\tilde{\chi}_1^0} = 1000$
- $b_1 \rightarrow t\bar{t}\chi_1^0$ ,  $m_{\tilde{\chi}_1^0} = 650$ ,  $m_{\tilde{\chi}_1^0} = 150$ ,  $m_{\tilde{\chi}_1^0} = 60$

Section of product of Poissons across bins for a single channel

