

# MadGraph5 + Delphes

pp  $\sqrt{s} = 14$  TeV L = 1 ab<sup>-1</sup>

**Selection: 2B0S**

$\chi^2/\text{ndf}=1.01$  KS=0.62

**Sig. signif.: 37.3**

-1 •

Pseudo-data

- $Z' \rightarrow t\bar{t}$ ,  $m_{Z'} = 1$  TeV ( $\times 37500 \times 2^{0.5}$ )
- $t\bar{t}$ ,  $p_T^{j1} \geq 200$  GeV  $p_T^{j2} \in (60, 200)$  GeV
- $t\bar{t}$ ,  $p_T^{j1, j2} \geq 200$  GeV
- $t\bar{t}$ ,  $p_T^{j1, j2} \in (60, 200)$  GeV
- WWbb,  $p_T^{j1, j2} > 60$  GeV
- Wbbjj,  $p_T^{j1, j2} > 60$  GeV
- bbjj,  $p_T^{j1} \geq 200$  GeV  $p_T^{j2} \in (60, 200)$  GeV
- bbjj,  $p_T^{j1, j2} \geq 200$  GeV
- bbjj,  $p_T^{j1, j2} \in (60, 200)$  GeV

Expected events /  $\Delta$

ratio

signif.

detector Top m [GeV]

