MadGraph5 + Delphes Expected events /  $\Delta$ 9000 pp  $\sqrt{s} = 14 \text{ TeV L} = 1 \text{ ab}^{-1}$ Pseudo-data 
$$\begin{split} &Z' \!\!\to t\bar{t}, \, m_{Z'} = 1 \; \text{TeV} \, (\!\times\! 37500^*\! 2^{^{4.0}}\!) \\ &t\bar{t}, \, p_T^{j_1} \!\!\!\! \geq \!\!\!\! 200 \; \text{GeV} \; p_T^{j_2} \in (60,\!200) \; \text{GeV} \\ &t\bar{t}, \, p_T^{j_1} \!\!\!\!\! , \!\!\!\! \geq \!\!\!\!\! \geq \!\!\!\! 200 \; \text{GeV} \\ &t\bar{t}, \, p_T^{j_1} \!\!\!\!\! , \!\!\!\! \geq \!\!\!\!\! \geq \!\!\!\!\! (60,\!200) \; \text{GeV} \end{split}$$
**Selection: 0B2S** 8000  $\chi^2$ /ndf=1.38 KS=0.90 ), > 60 GeV  $\begin{array}{l} \text{Wbbjj, } p_{T}^{j_{1},j_{2}} > 60 \text{ GeV} \\ \text{bbjj, } p_{T}^{j_{1}} \geq 200 \text{ GeV } p_{T}^{j_{2}} \in (60,\!200) \text{ GeV} \\ \text{bbjj, } p_{T}^{j_{1},j_{2}} \geq 200 \text{ GeV} \\ \text{bbjj, } p_{T}^{j_{1},j_{2}} \in (60,\!200) \text{ GeV} \end{array}$ 7000 Sig. signif.: 1.8 6000 5000 4000 3000 2000 1000 signif. 600 800 1000 1200 1400 1600 1800 2000

detector m<sup>tt</sup> [GeV]