## **ATLAS** Internal Theory Zγ Norm W<sub>γ</sub> Norm Wt<sub>γ</sub> Norm tty\_prod\_var3c tty\_prod\_muR tty\_prod\_muF tty\_prod\_PDF4LHC\_2 tty\_prod\_PDF4LHC\_16 tty\_prod\_Herwig7 tty\_dec\_var3c tty(dec) Norm tty\_dec\_muF tty\_dec\_Herwig7 ttbar\_pt\_hard ttbar Norm ttbar\_hdamp\_var ttbar\_Herwig7 ty(t channel) Norm Wty muF Wty\_Herwig7