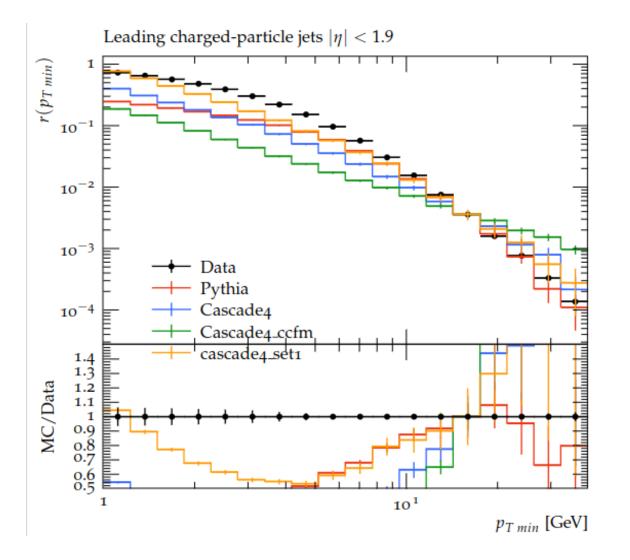
School internship at DESY

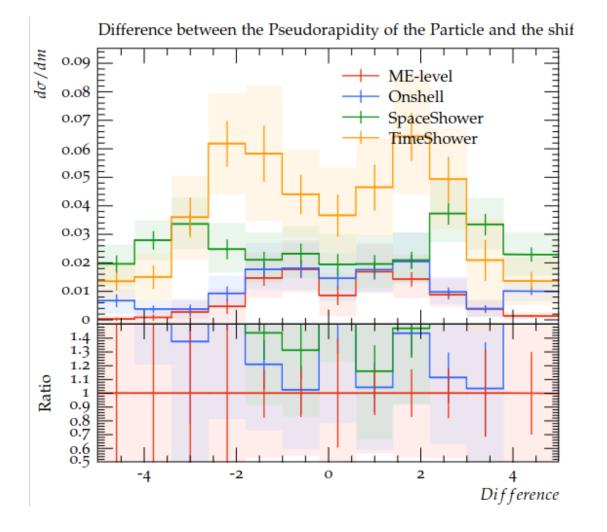
Moritz Gillen

Analysis of CMS_2015_I1380605

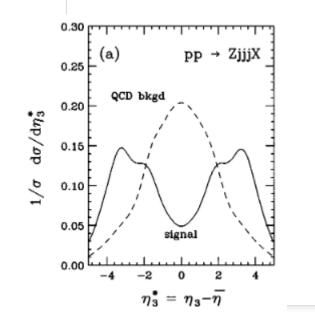


- First analysis with Cascade
- Difference in coming from TMD

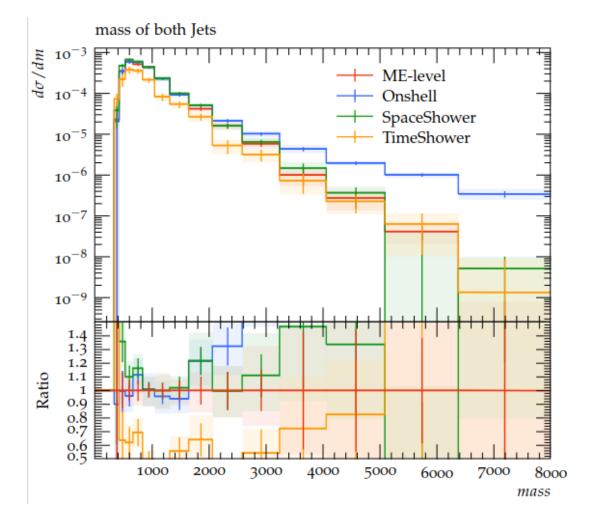
Z-Boson+ 2-Jet Event

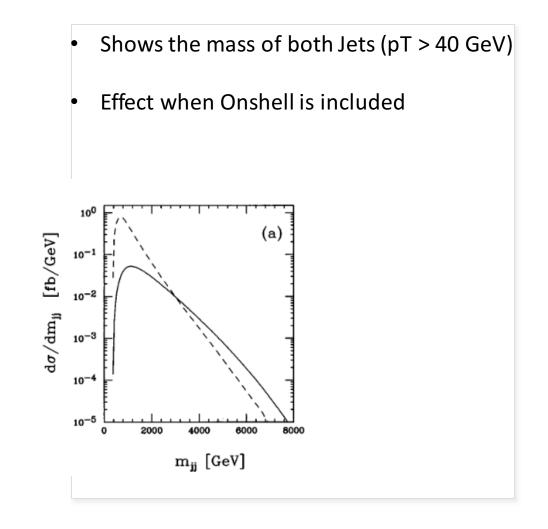


- Formula: $\eta_3^* = \eta_3 \overline{\eta} = \eta_3 \frac{\eta_j^{\tan 1} + \eta_j^{\tan 2}}{2}$.
- Difference between η of the Minijet (pT>10 GeV) and shifted η of the Jets (pT>40 GeV)
- Effect when PatonShower is included



Z-Boson+ 2-Jet Event





Comparison with VBS Signal

