Status report

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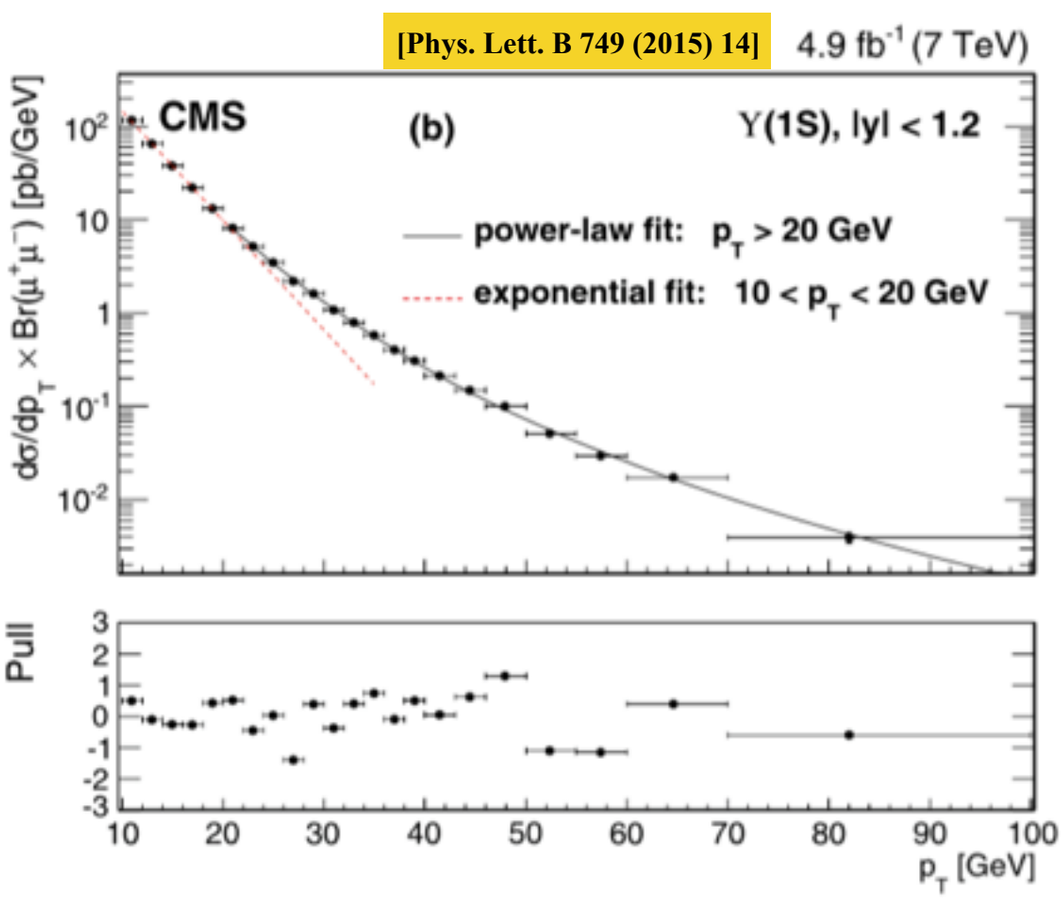
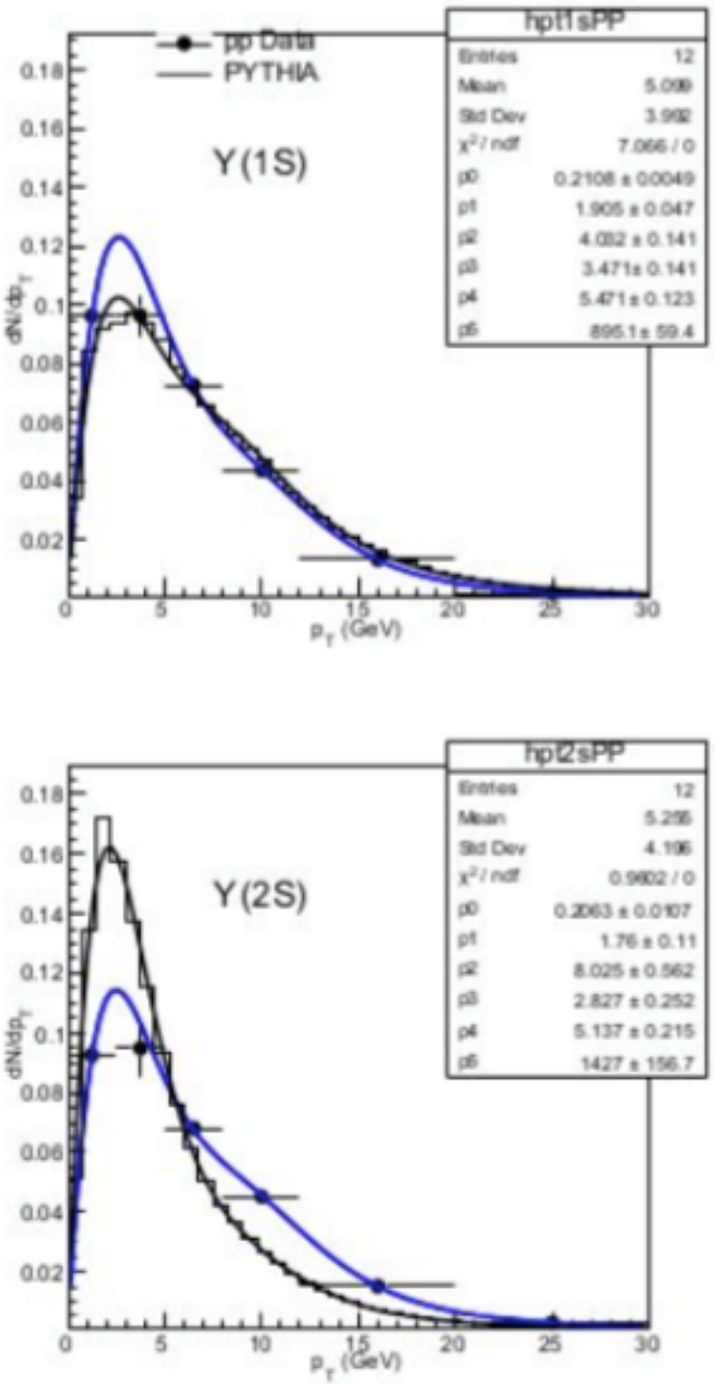
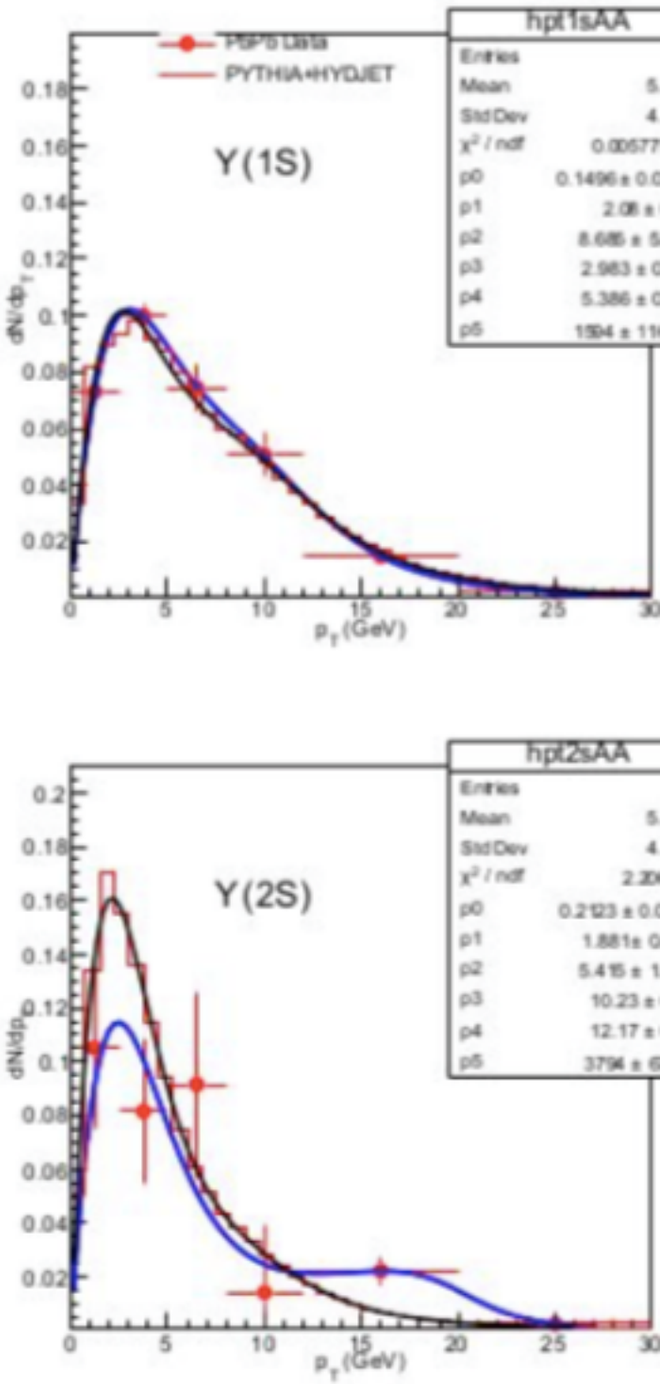
dN/dpT re-weight

- Split the function into two regions 0-20, 20-30 GeV
  - Exponential function pT < 20GeV/c
    dN/dpT = C*pT/(exp(pT/T)+1)
  - Power function pT > 20 GeV/c
- 6 paramters 6 data point, only 1 point above 20GeV
- Need to fit well the low pT part





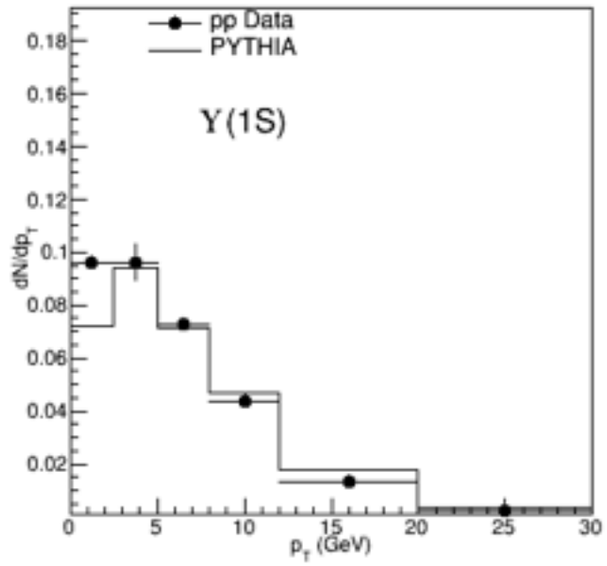


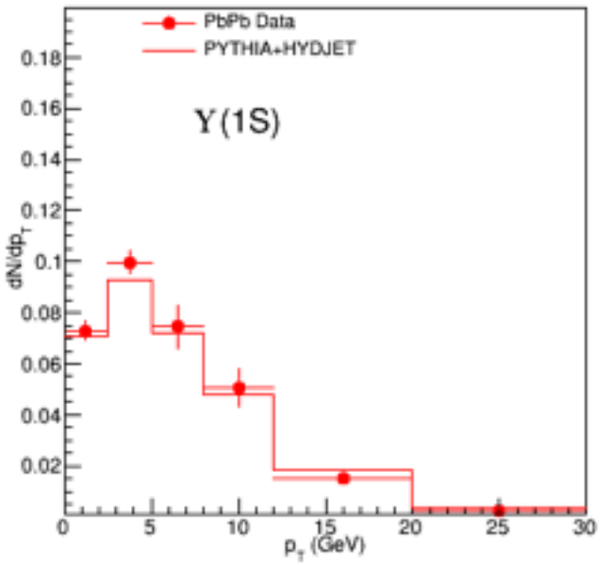
dNdpT ratio

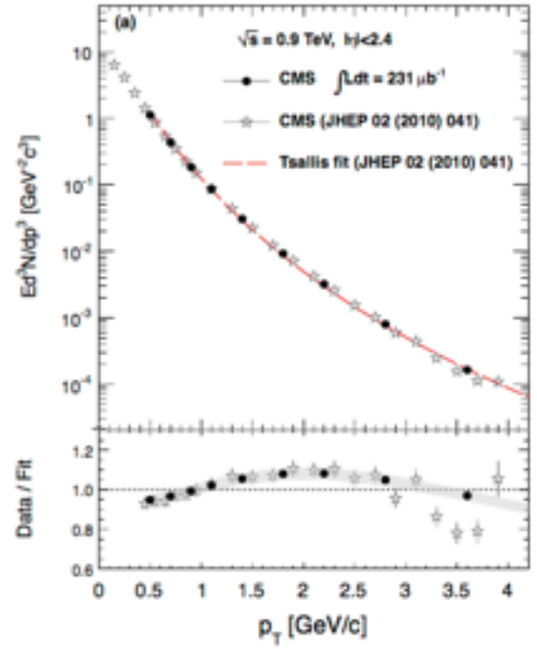
- Fit the ratio itself

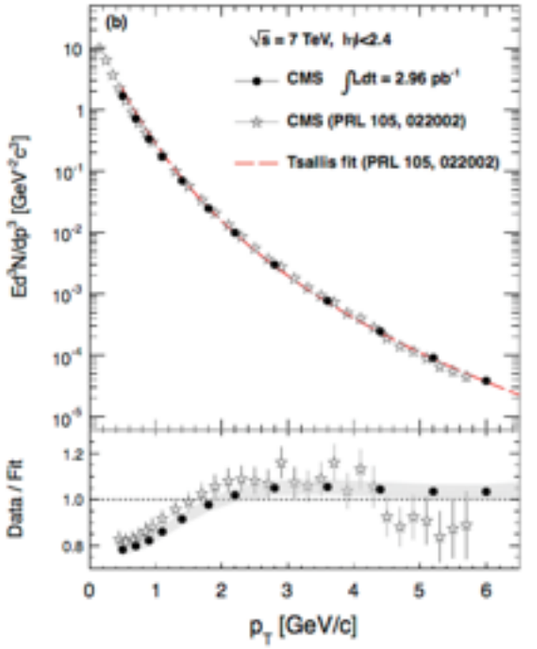
[arxiv.org/abs/1210.7464]
[Ferenc Sikl´er: Tsallis fitting of the CMS data]

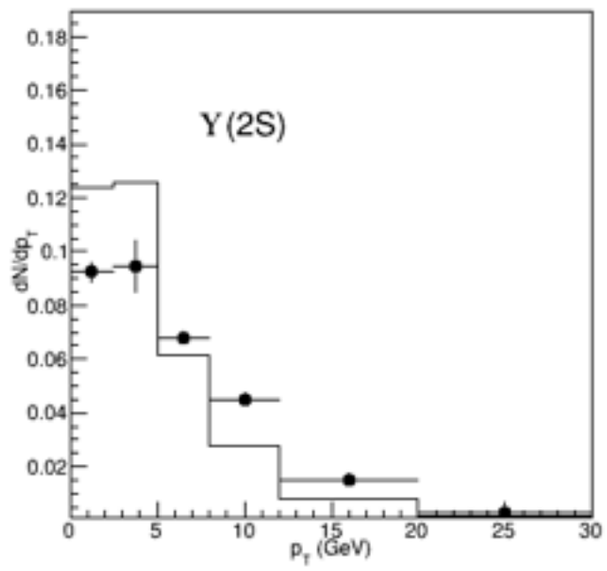
- Tsallis function $\frac{d^2N}{dp_T\,dy} = p_T \frac{dN}{dy} \frac{(n-1)(n-2)}{nC(nC+m_0(n-2))}\left[1+\frac{m_T-m_0}{nC}\right]^{-n}$

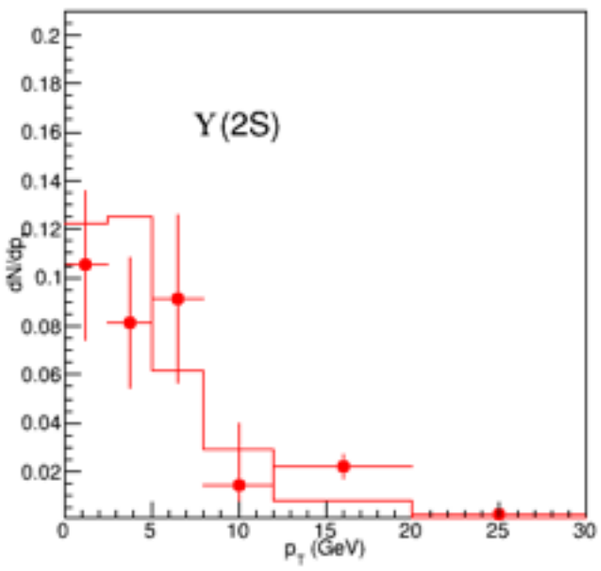


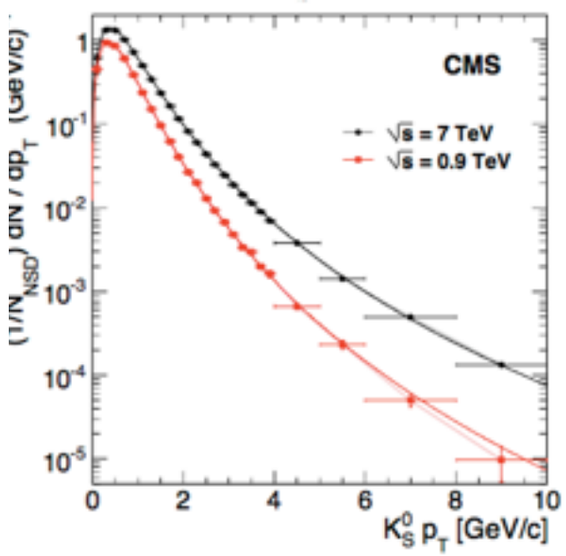


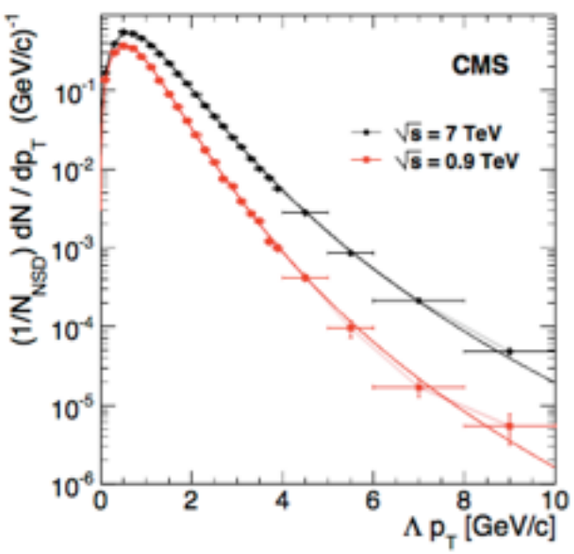






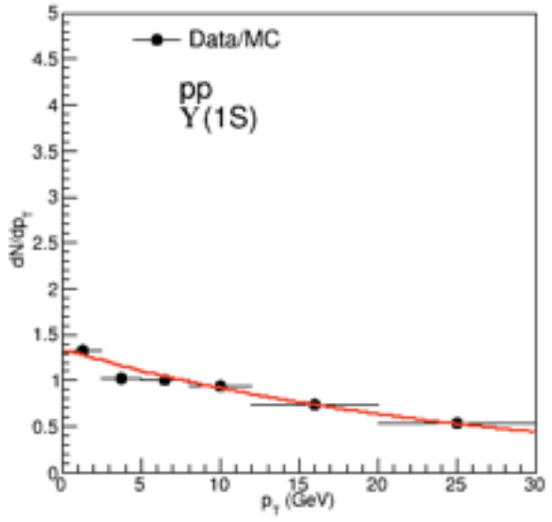


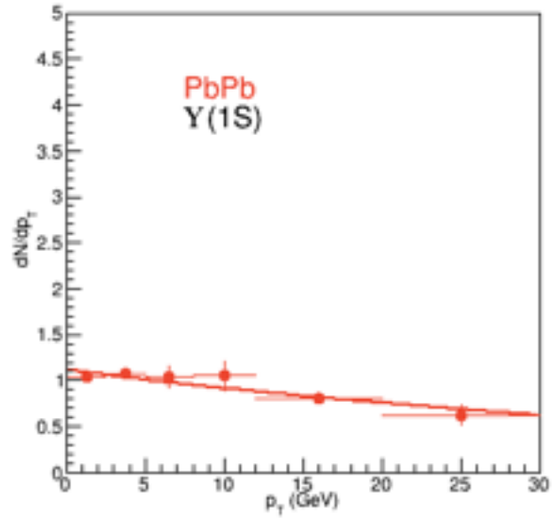


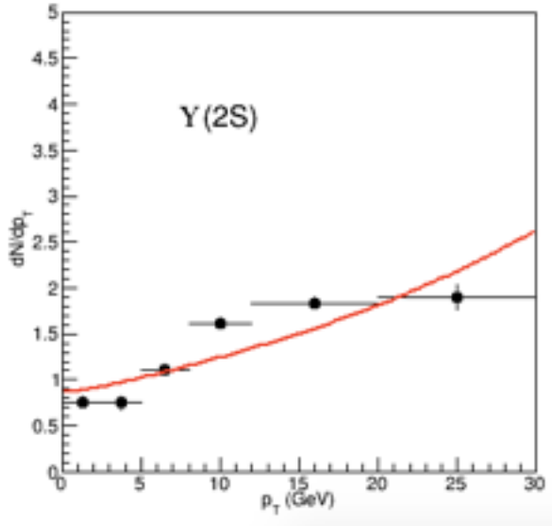


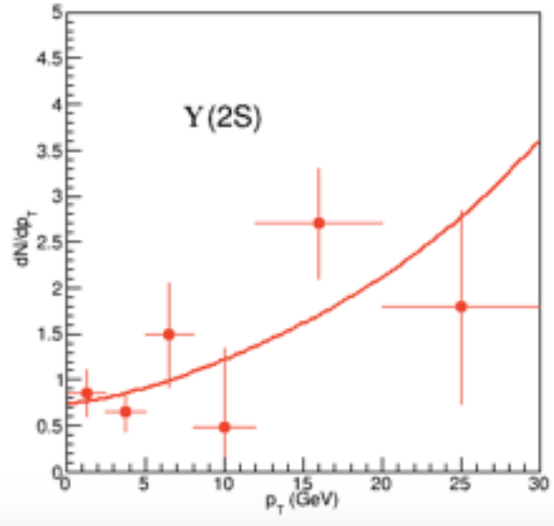
dN/dpT re-weight

‘Ratio Function’ of two exponential like function









‘Ratio Function’ of two Tsallis functions