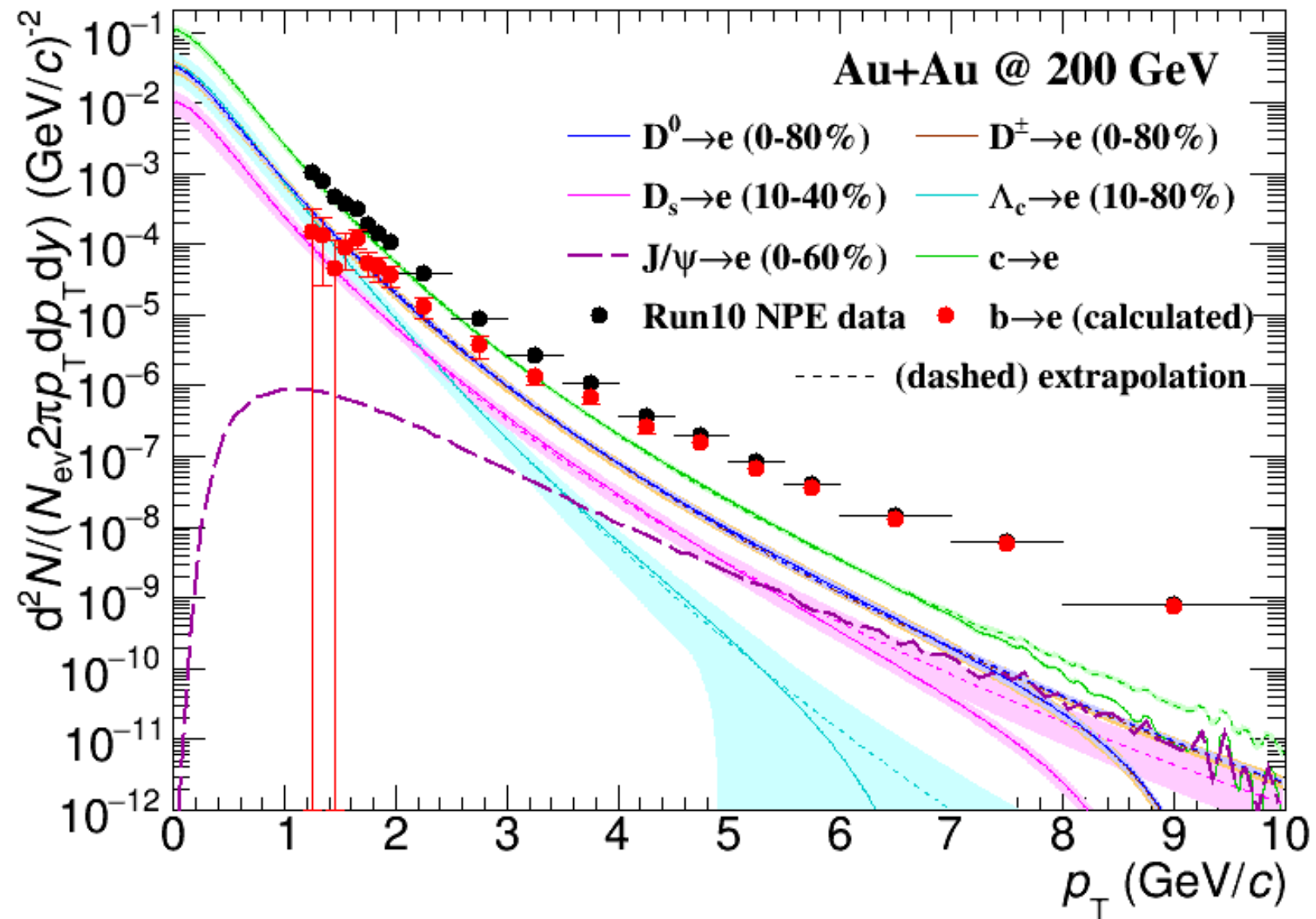


Charm hadron spectra in AuAu 200 GeV

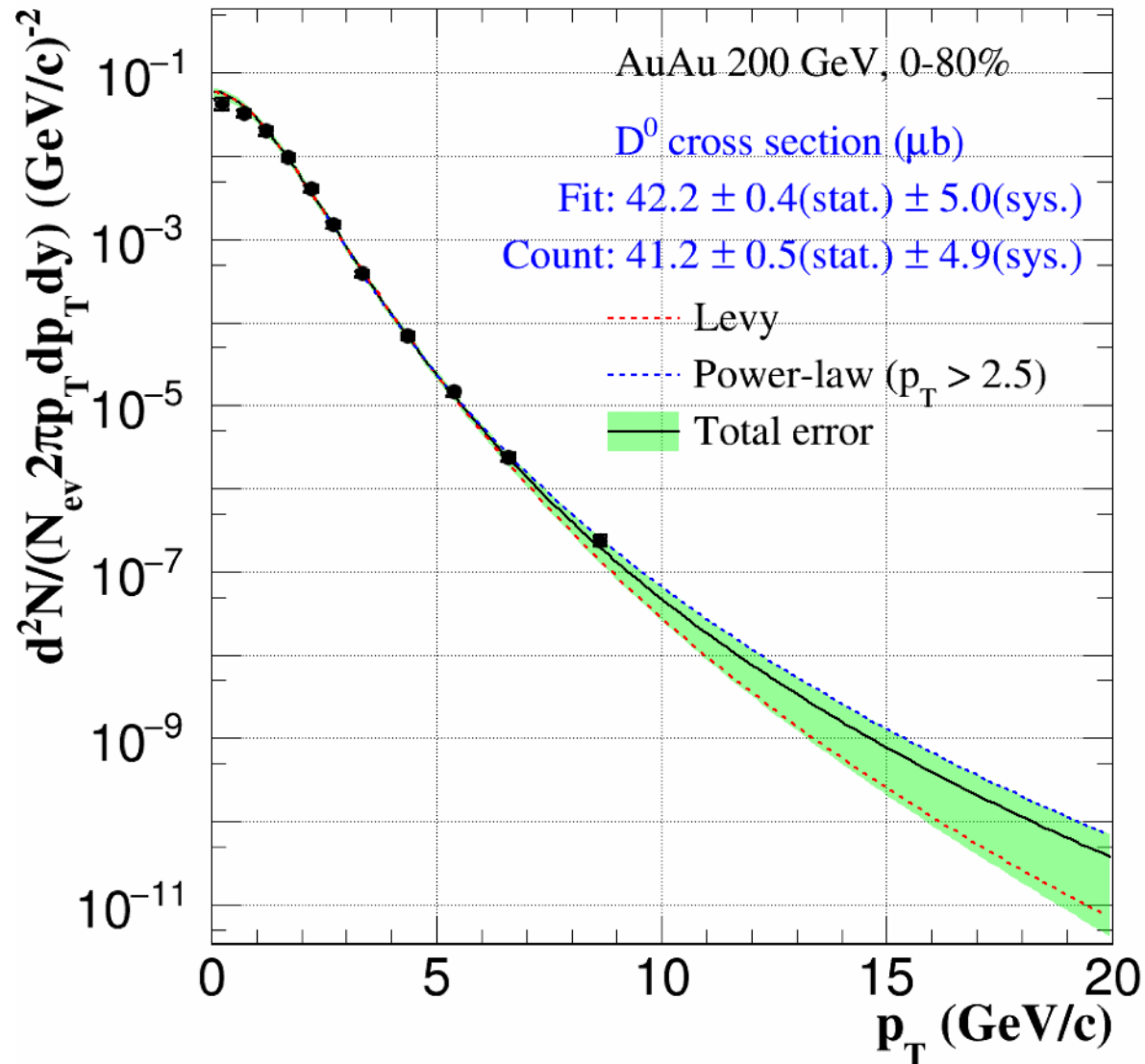
Feb 23st, 2019
Xiaolong Chen

Fraction of b/c hadron $\rightarrow e$



- For open charm hadron $\rightarrow e$, the main contribution comes from $D^0/D^+ \rightarrow e$ at $p_T > 3 \text{ GeV}/c$

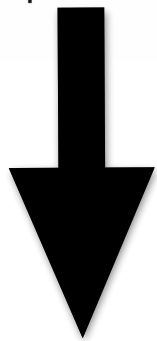
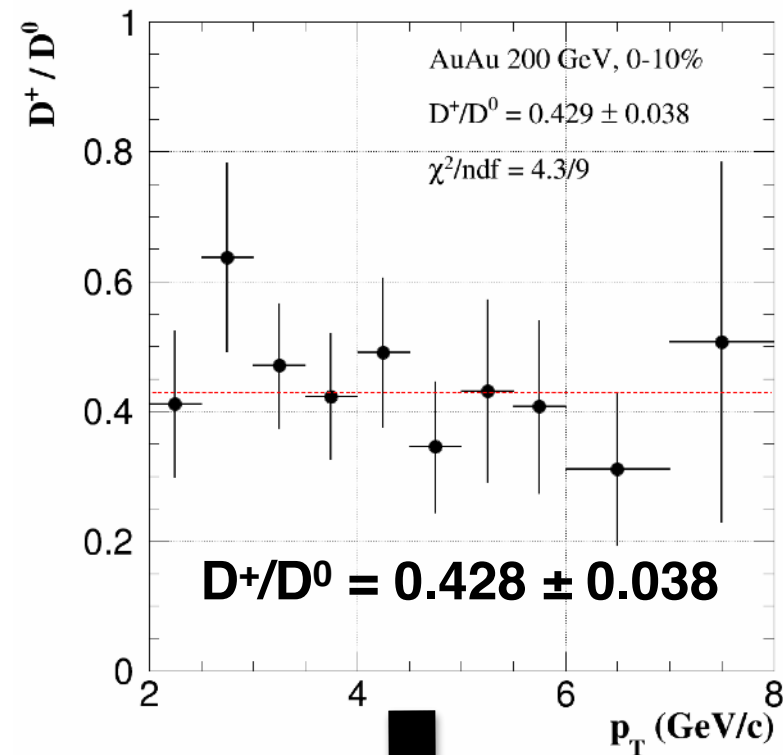
D0 pT extrapolated to 20 GeV



- Error estimation include three parts
 - 1σ error from Levy fit (extrapolated to 20 GeV)
 - sys. error from data points: move each data points up to mean + sys and fit again
 - error from different fit function

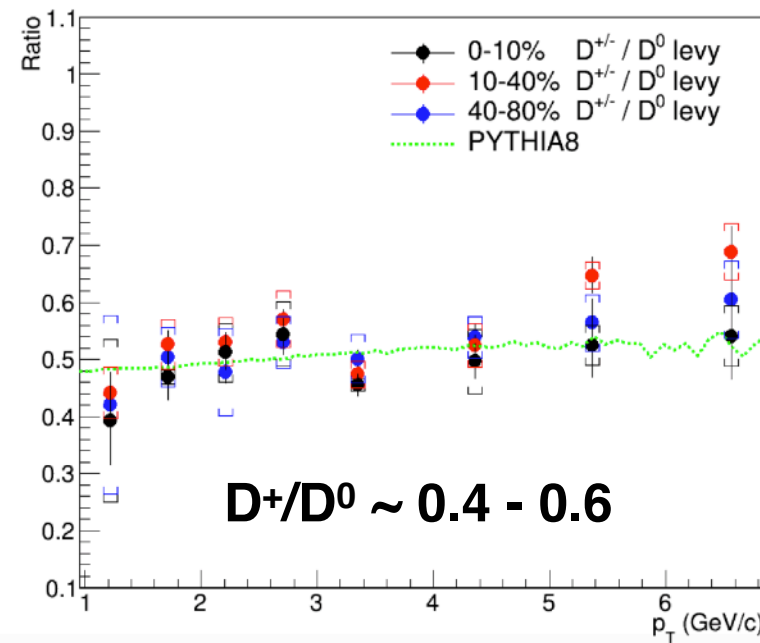
D+

D+ from preliminary results

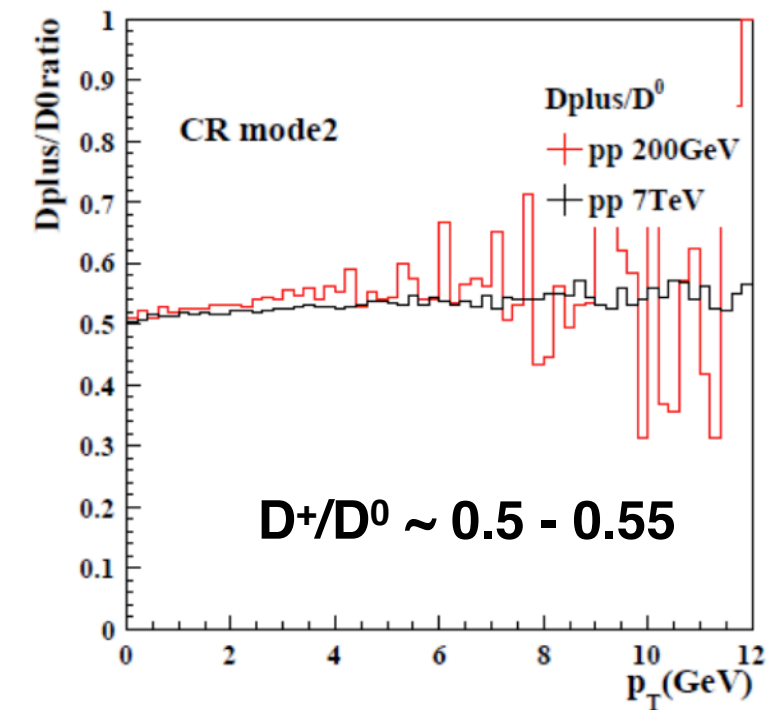


Currently use the STAR preliminary results:
 $D^+/D^0 = 0.428 \pm 0.038$

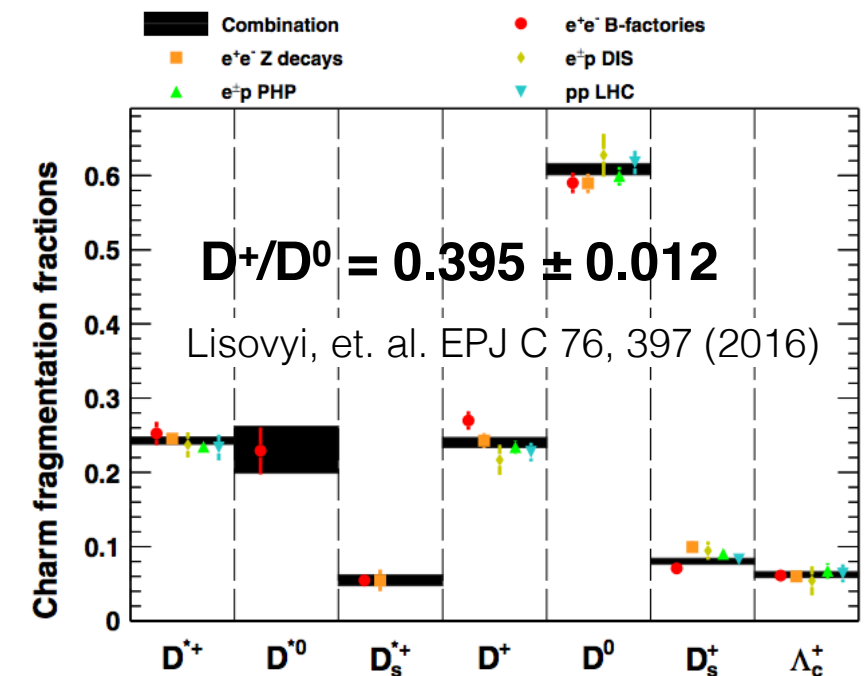
D+ from Xinyue

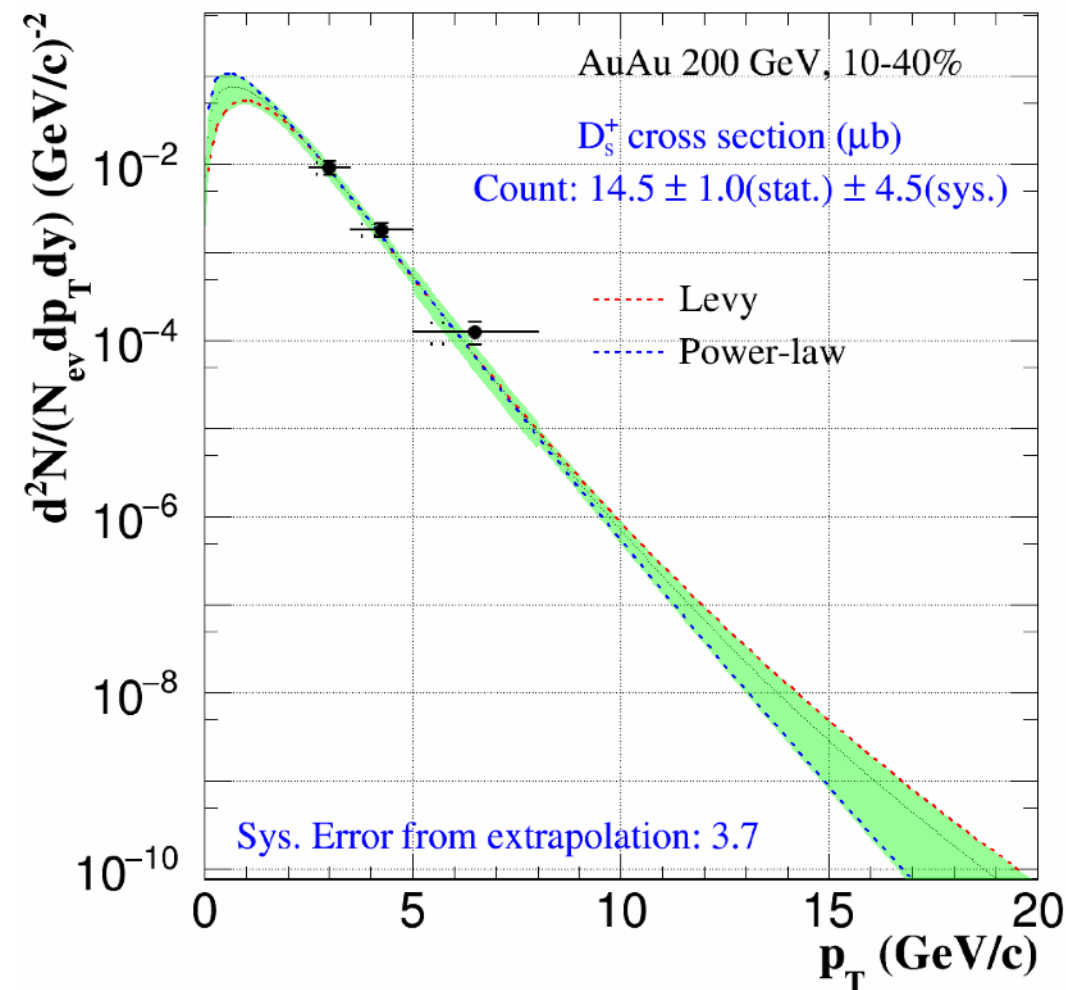


Pythia8 tuned by Yuanjing



Published





- Error estimation include three parts
 - stat. error from data points
not use 1σ error from Levy fit due to $\text{ndf} = 0$
 - sys. error from data points:
move each data points up to mean + sys
and fit again
 - error from different fit function