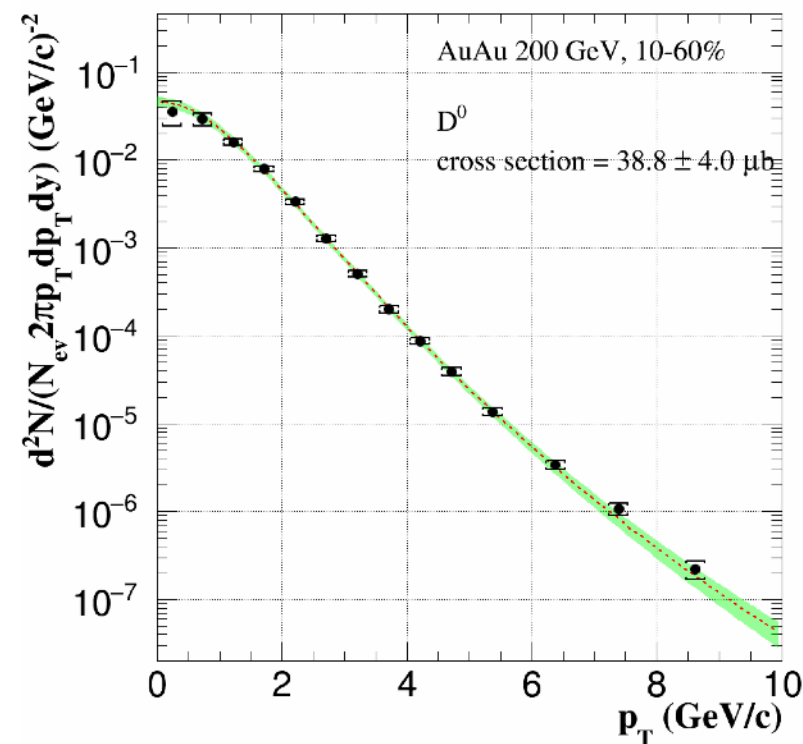
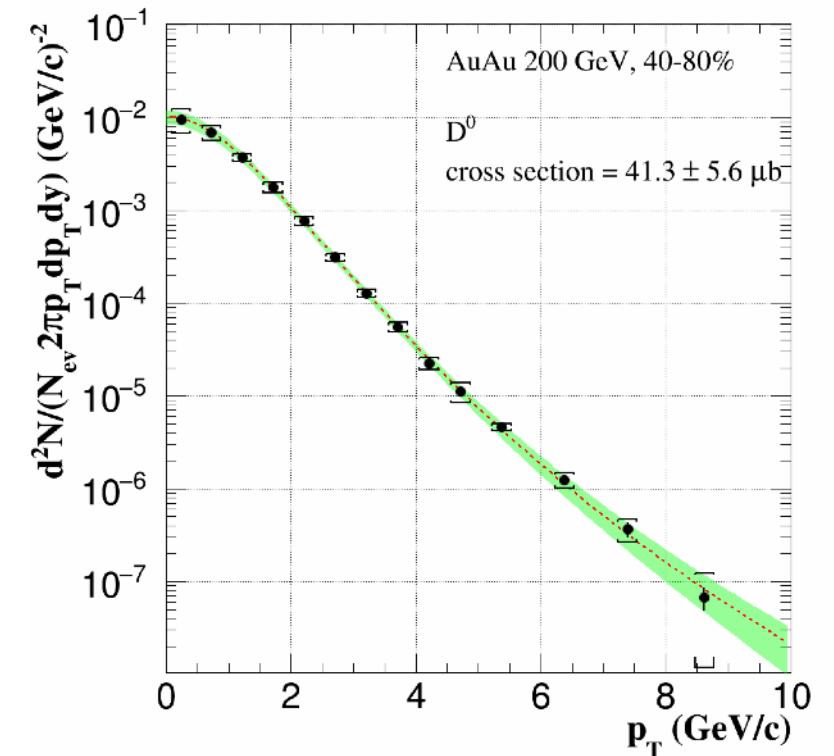
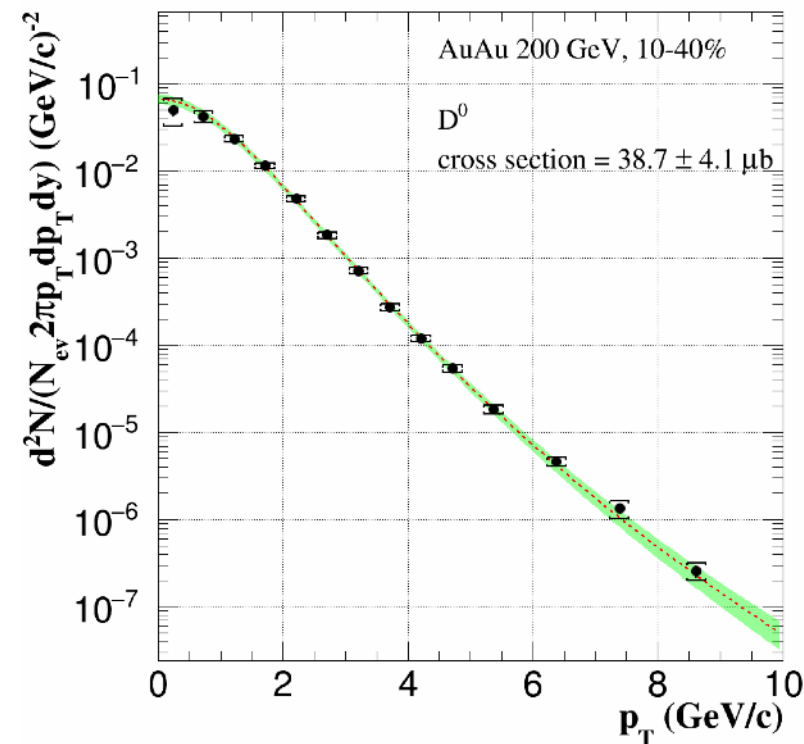
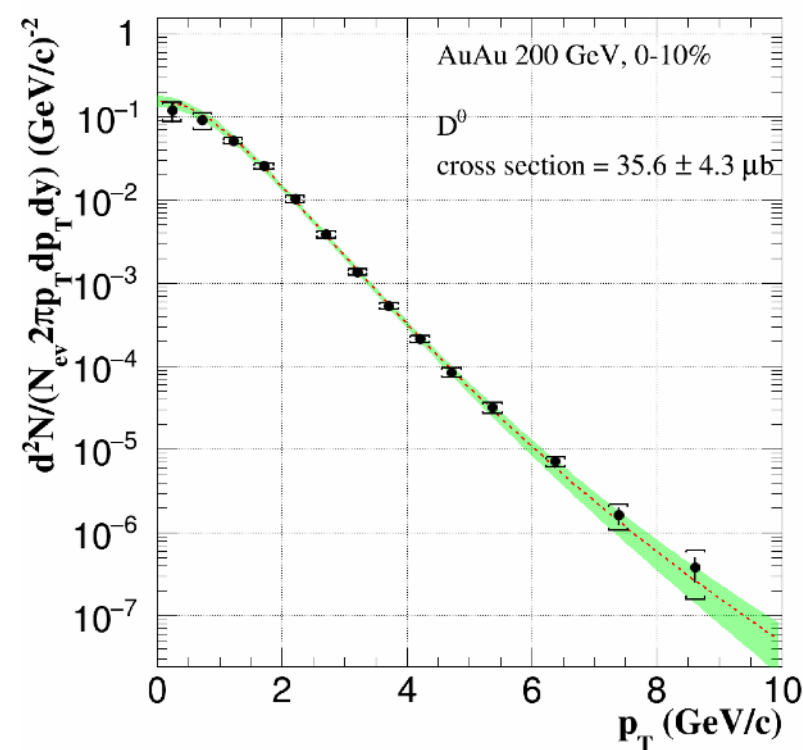


# Total Charm Cross Section

2017/6/18

# D0



- Error include two parts:

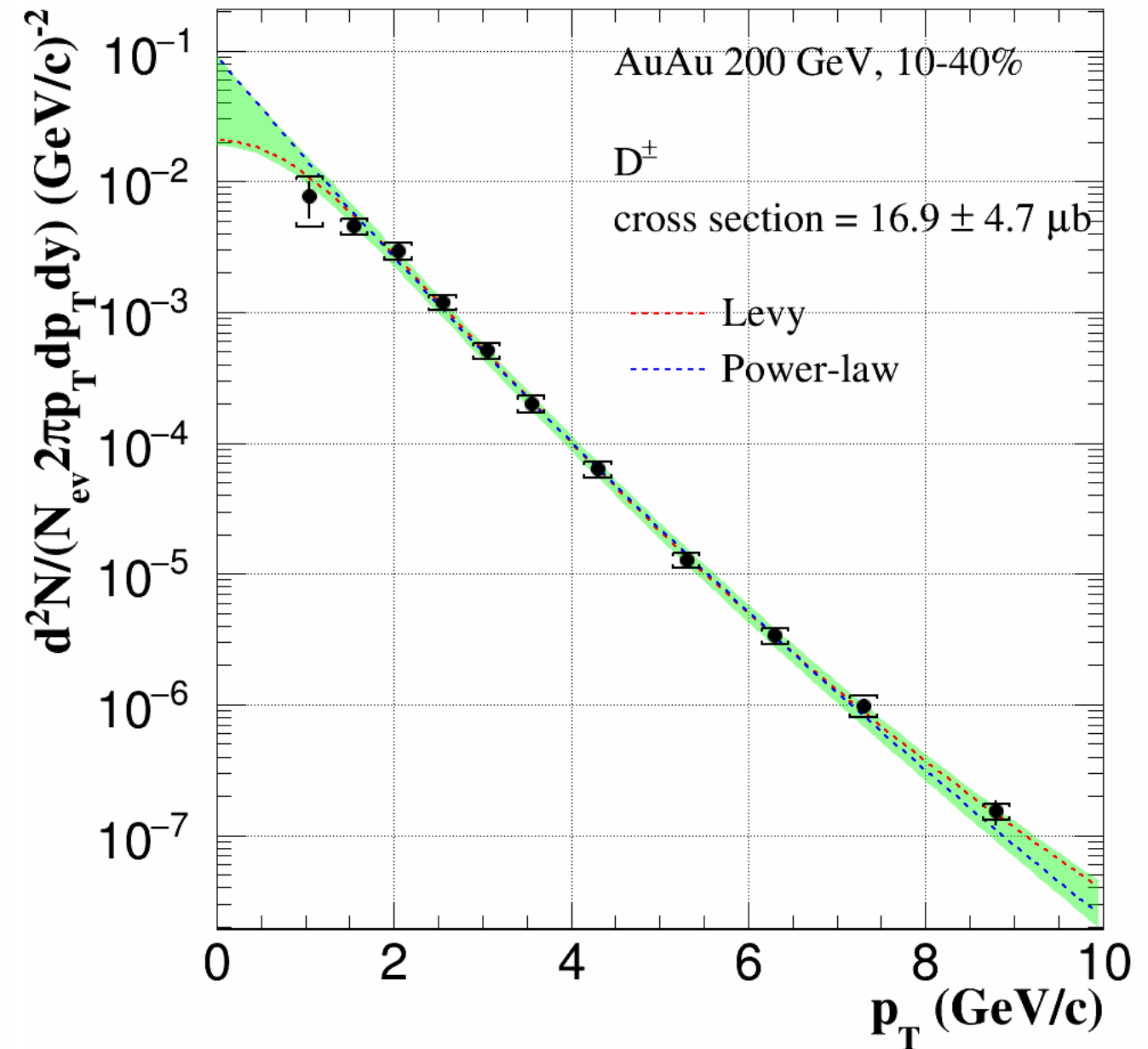
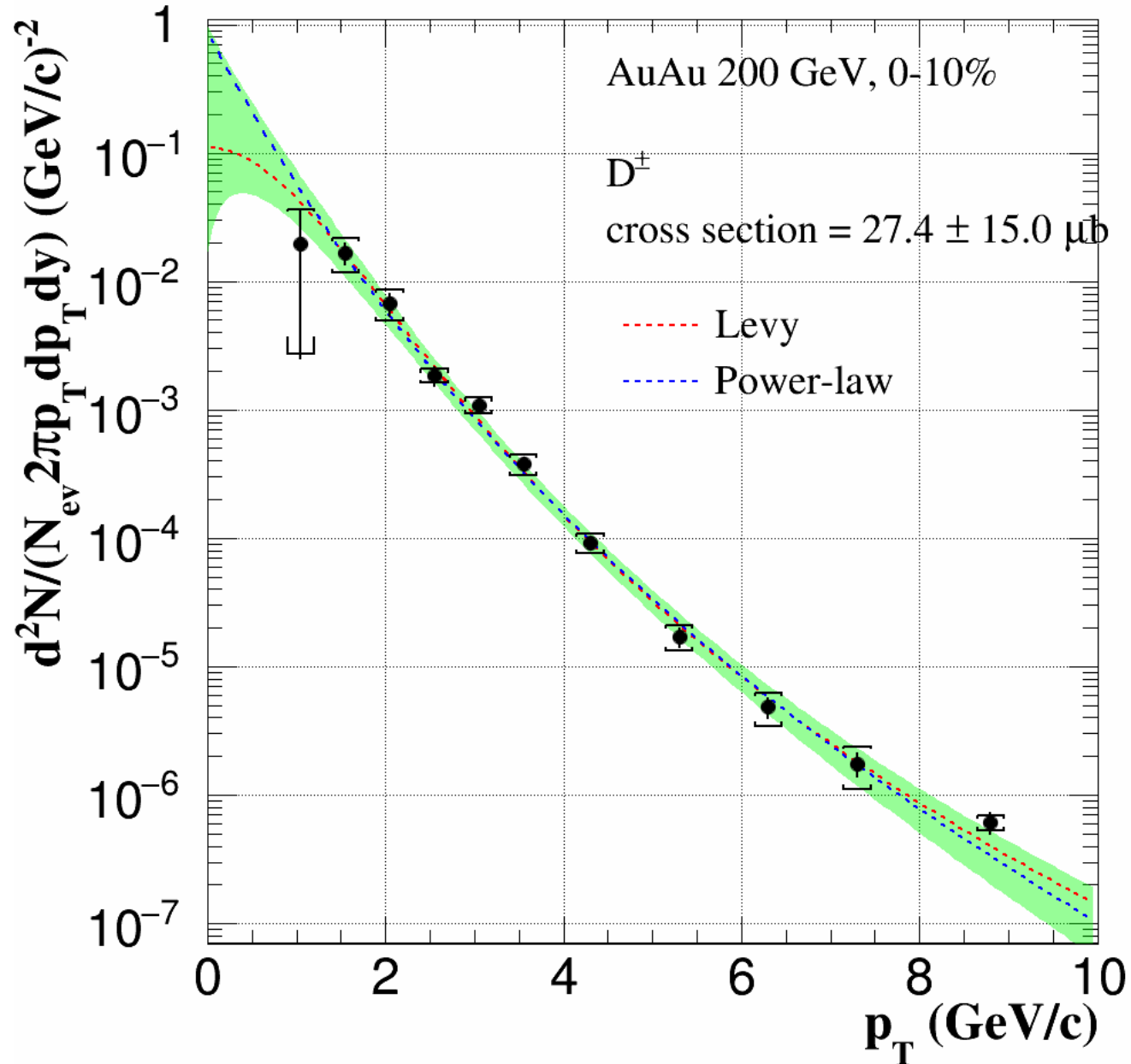
1) from fit

```
(TVirtualFitter::GetFitter())->GetConfidenceIntervals(gBand[icent],0.68);  
gBand[icent]->SetName(Form("flevy_err_band_%s",nameCent1[0]));
```

2) sys error

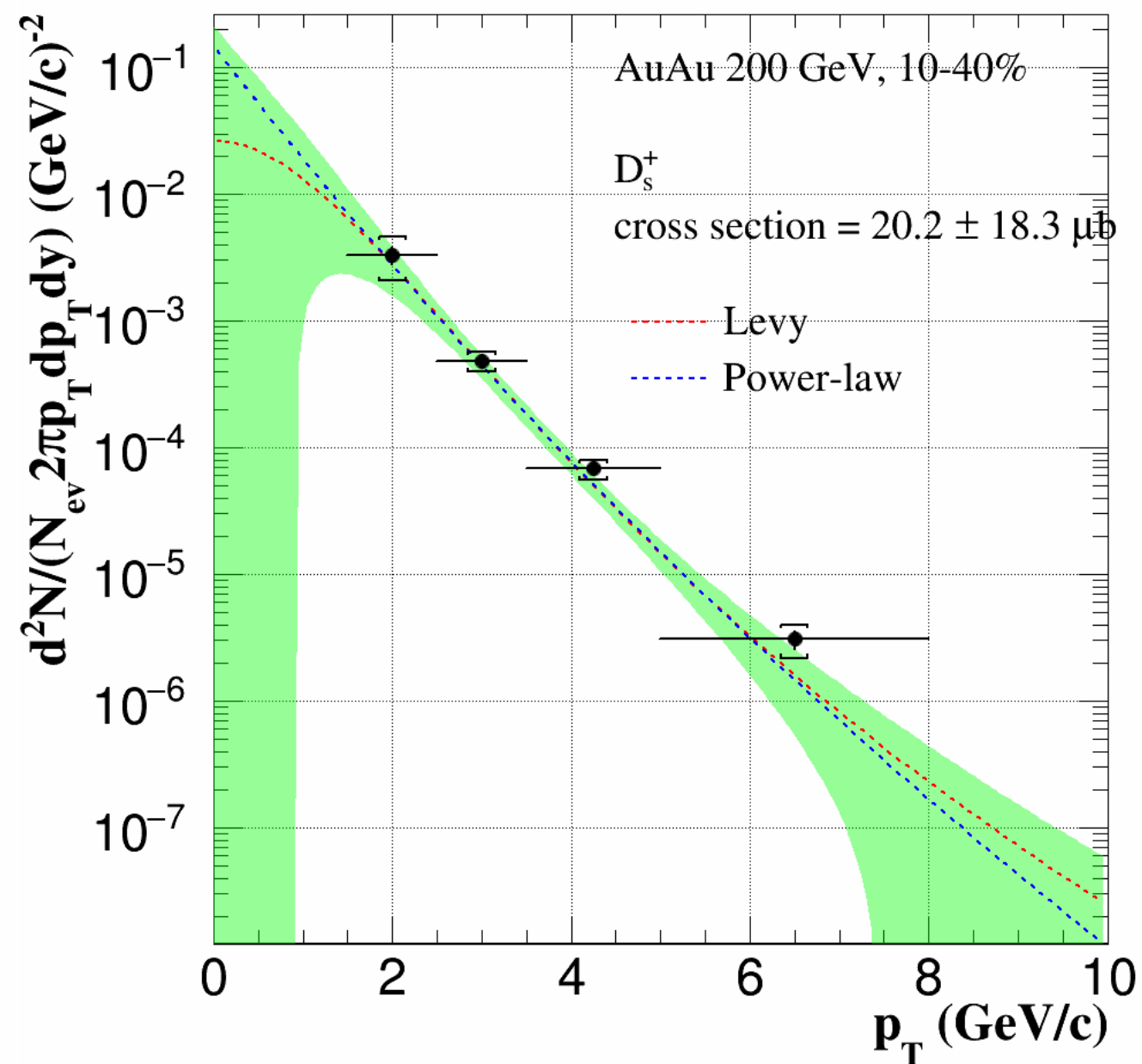
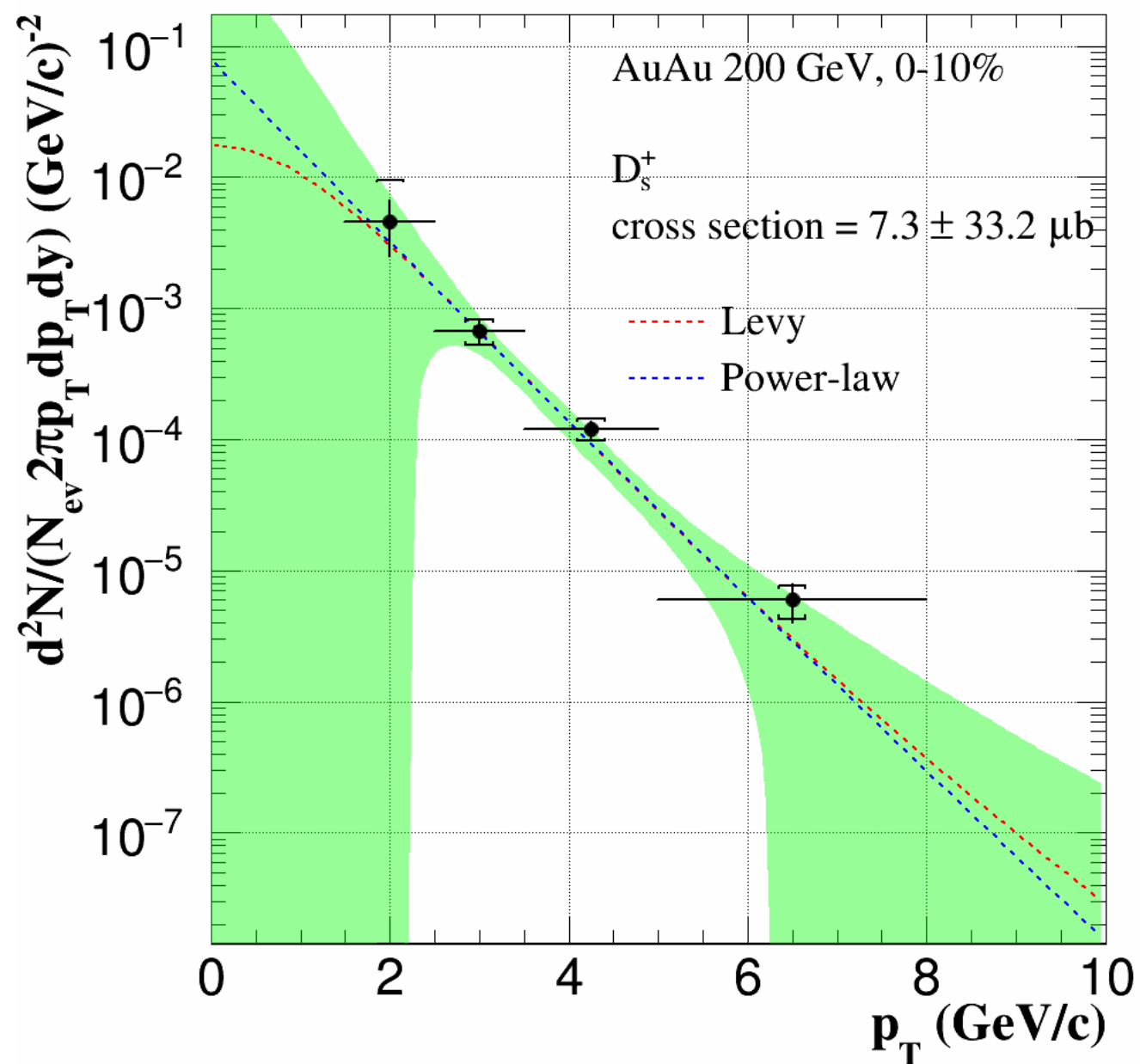
shift every data point up sys. error, and refit,  
get the difference.

# D+/-

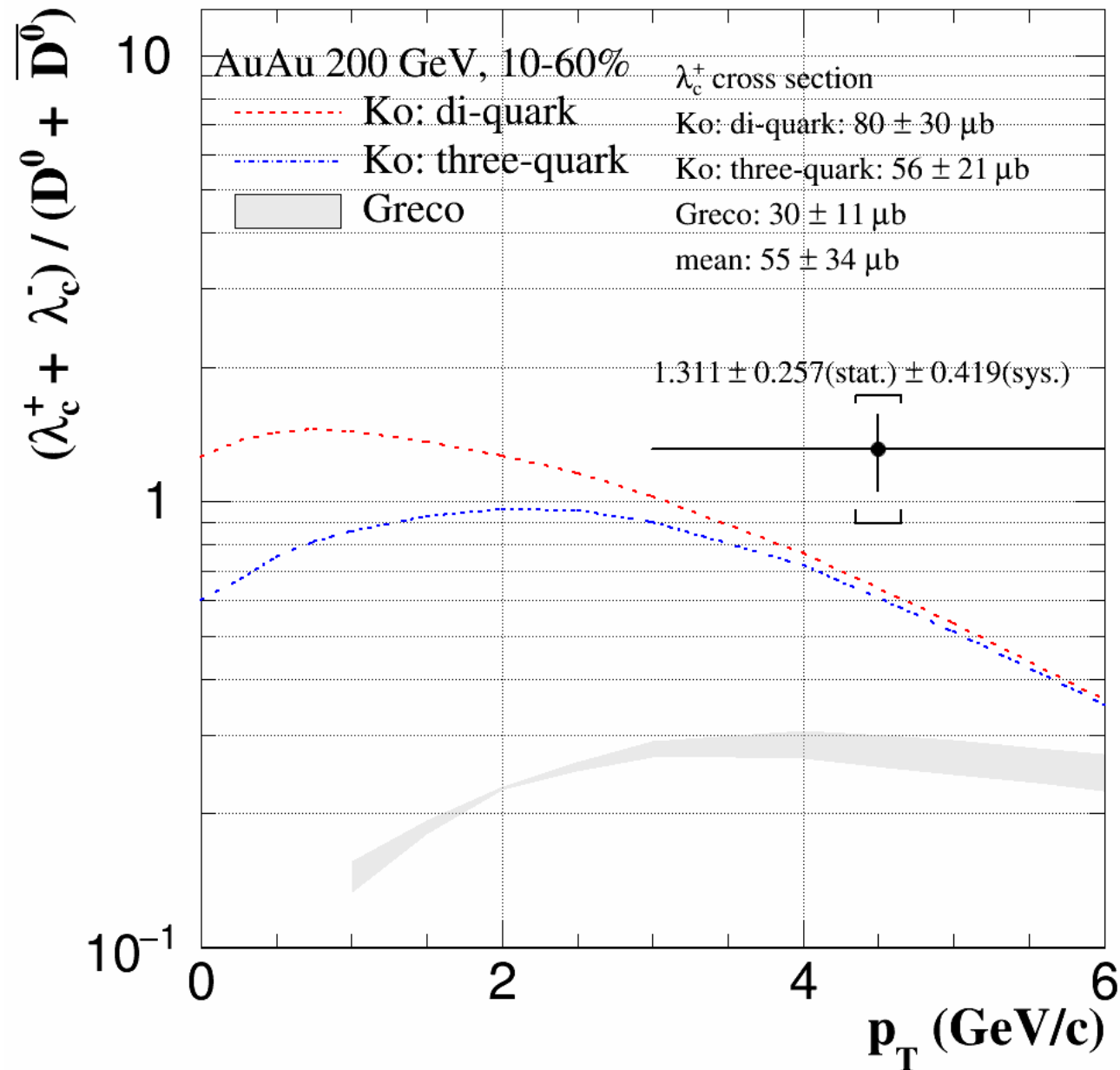


Add extraction error: difference between Levy fit and Power-law fit

# Ds



$$55 \pm 34 \mu\text{b}$$



- Use Lc/D0 shape from model, scale it to the only data point.
- scale num  
Ko di-quark:  $\sim 1.5$   
Ko three-quark:  $\sim 1.7$   
Greco: 4.7
- Error  
1) stat. and sys. error from the only data point  
2) maximum difference between three models

# Total charm cross section

10-60% for  $L_c$ , 10-40% for others

Charm Hadron	Cross Section ( $\mu\text{b}$ )
$D^0$	$39 \pm 4$
$D^-$	$17 \pm 5$
$D_s$	$20 \pm 18$
$L_c$	$55 \pm 34$
Total	$131 \pm 39$