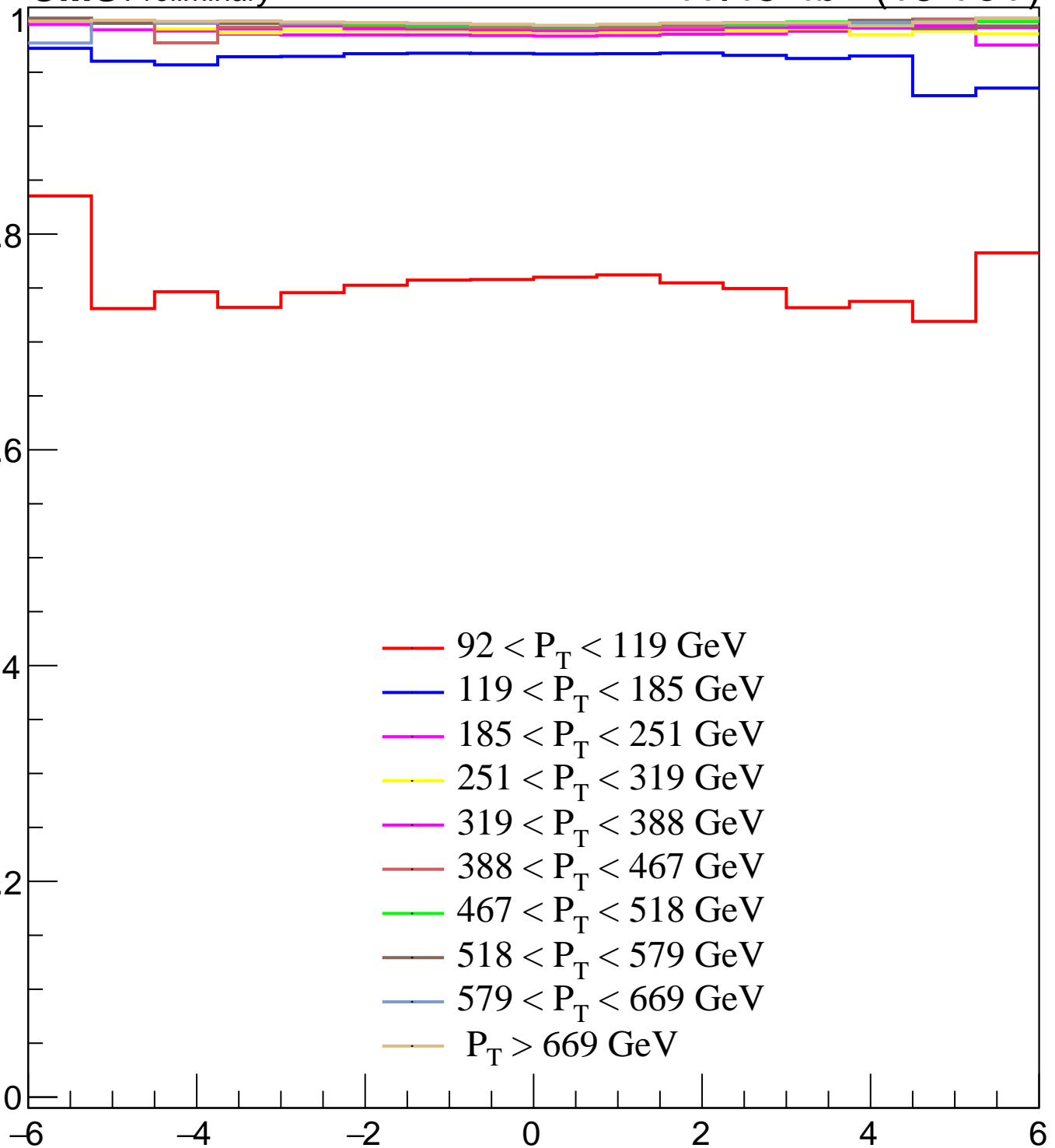


Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_1}^{k=0.1}$ 

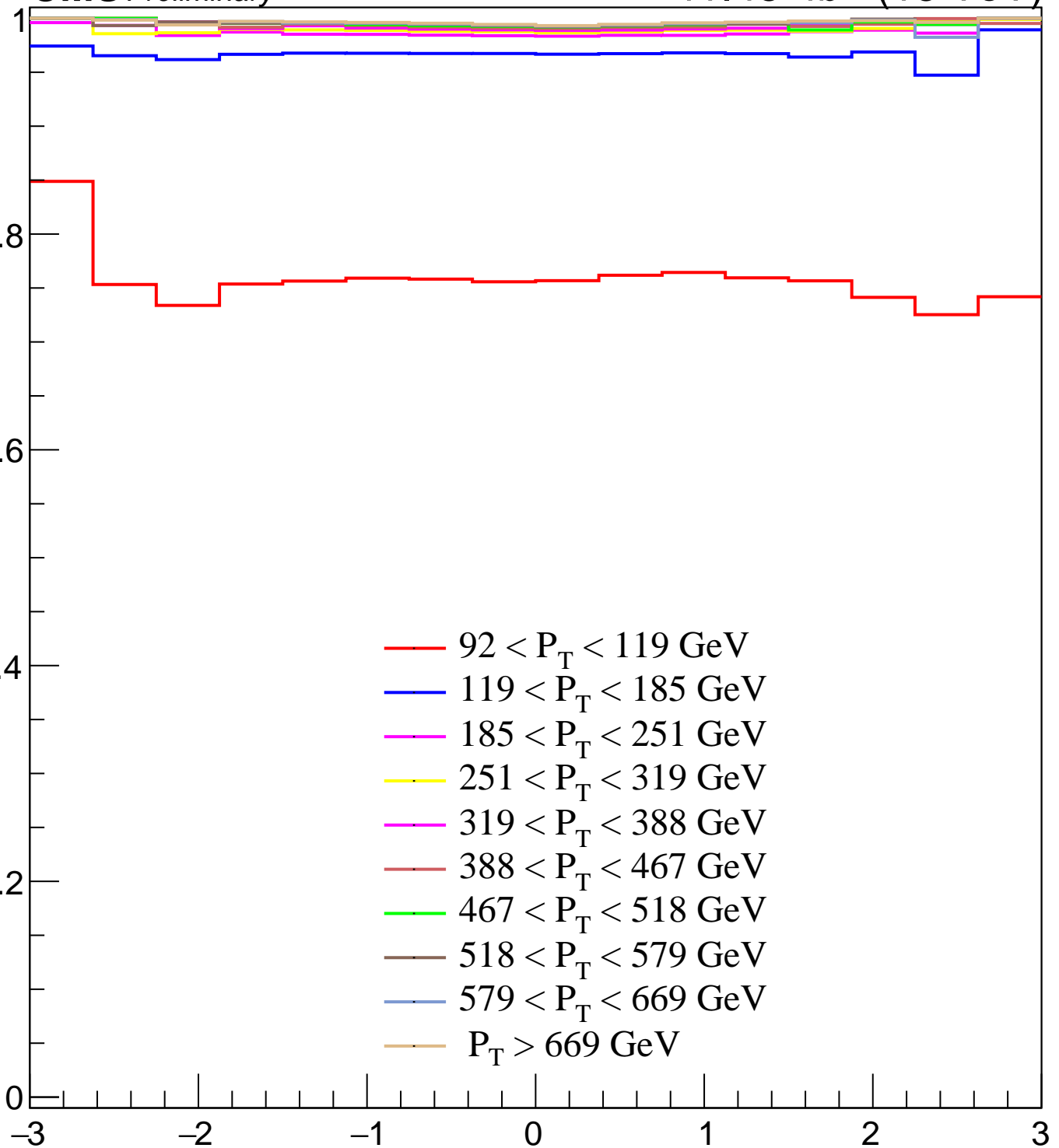
Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_1}^{k=0.2}$

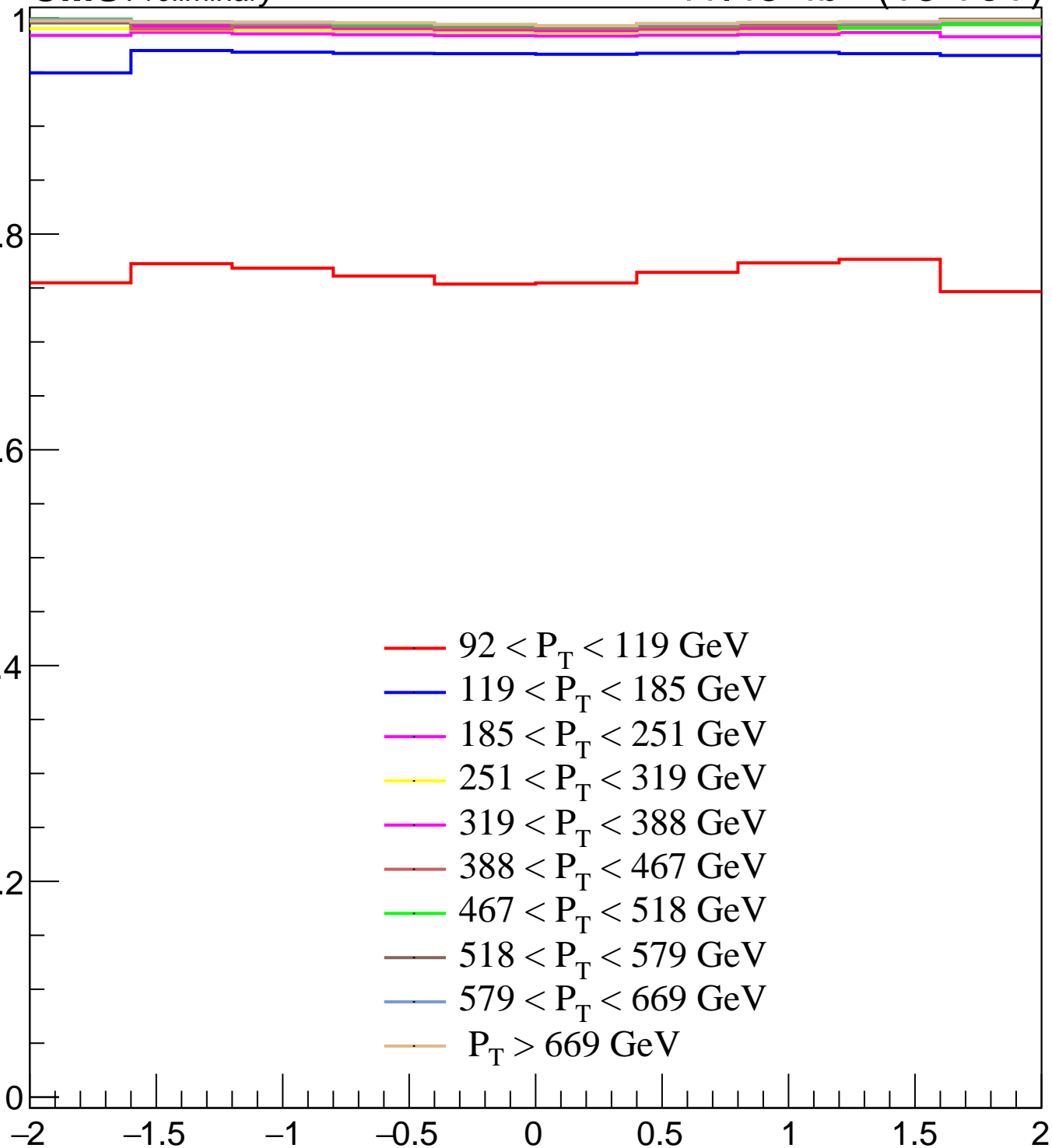
Efficiency

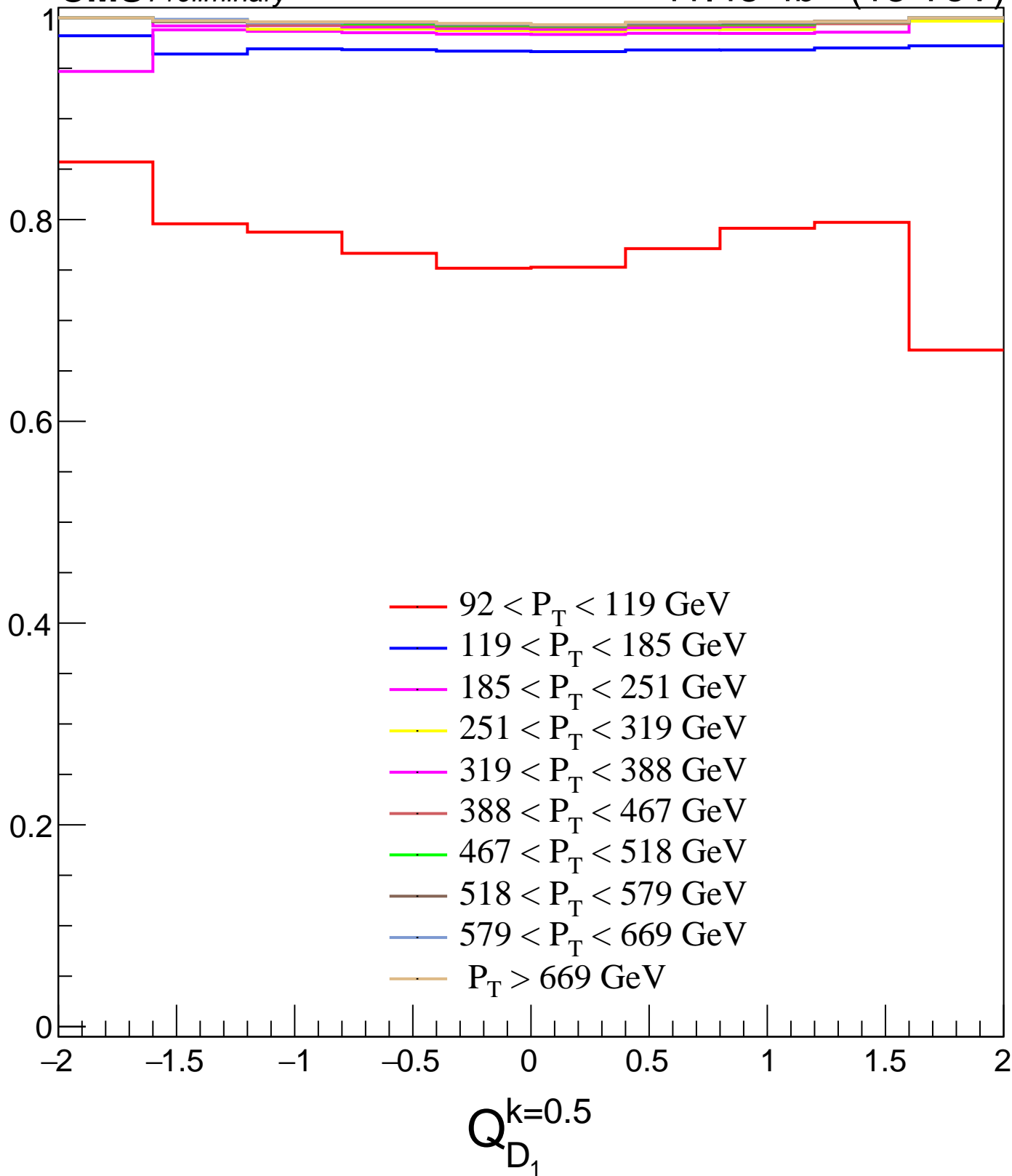
- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_1}^{k=0.3}$ 

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

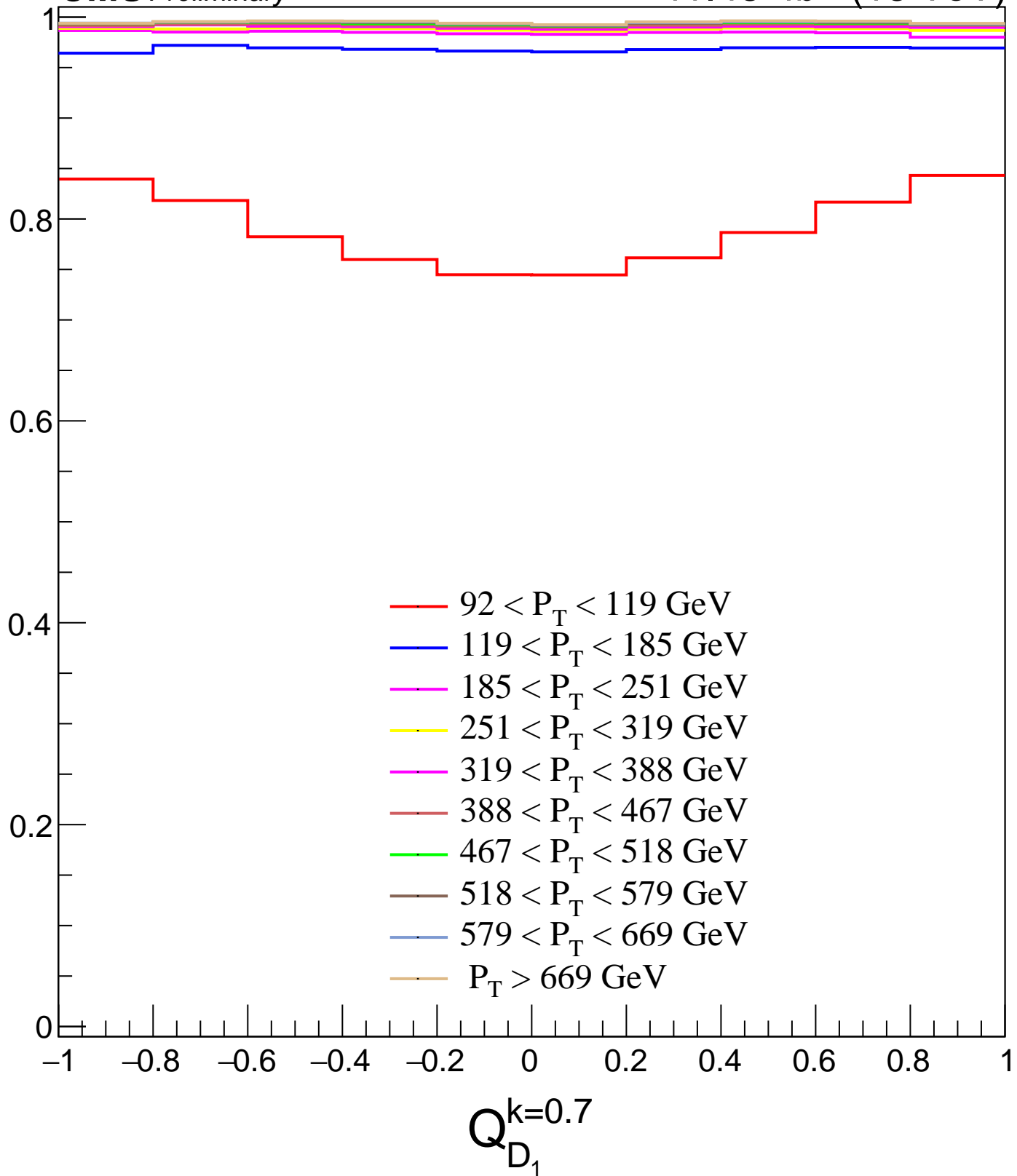
 $Q_{D_1}^{k=0.4}$ 



Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_1}^{k=0.6}$



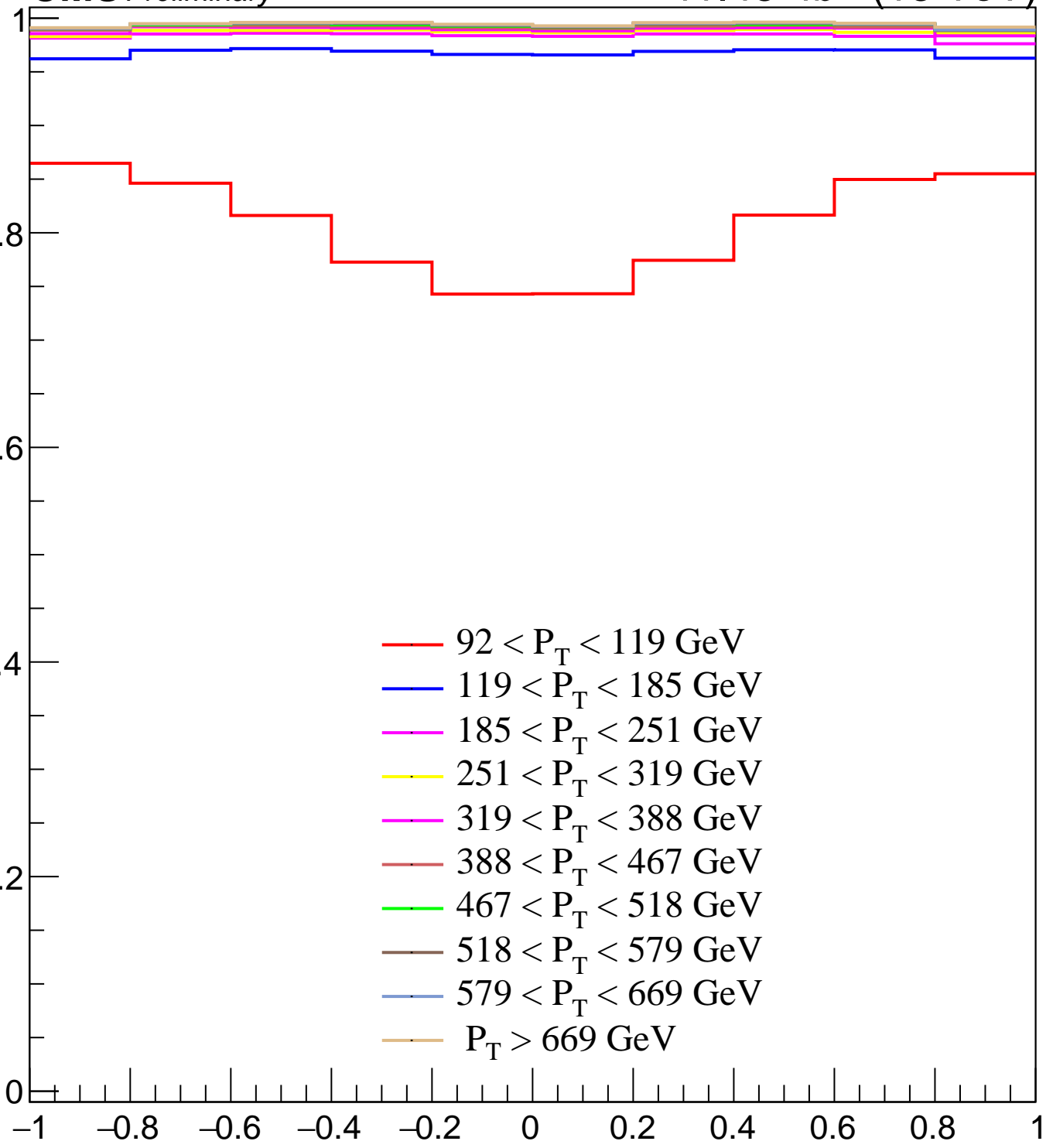
Efficiency

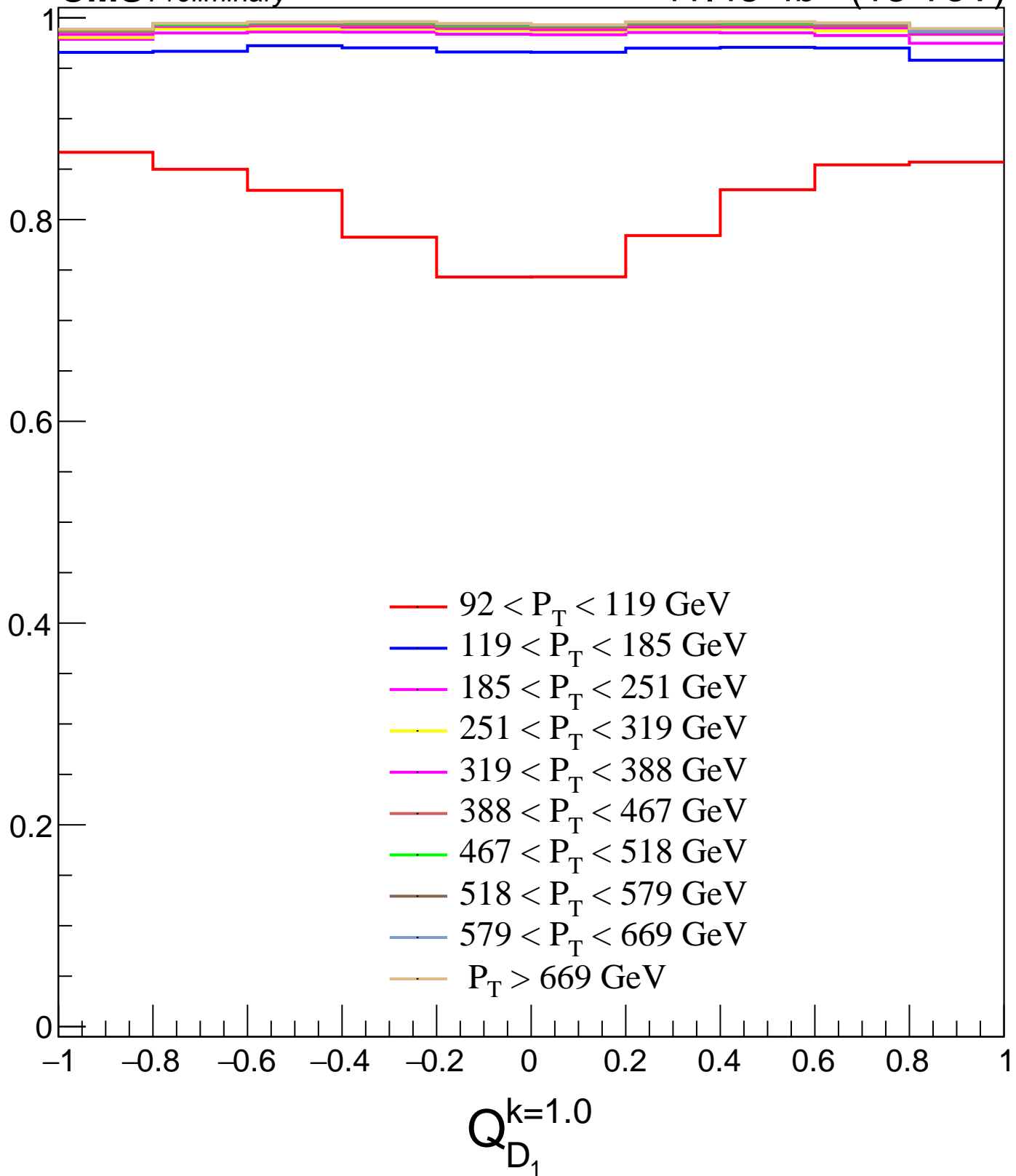
- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_1}^{k=0.8}$

Efficiency

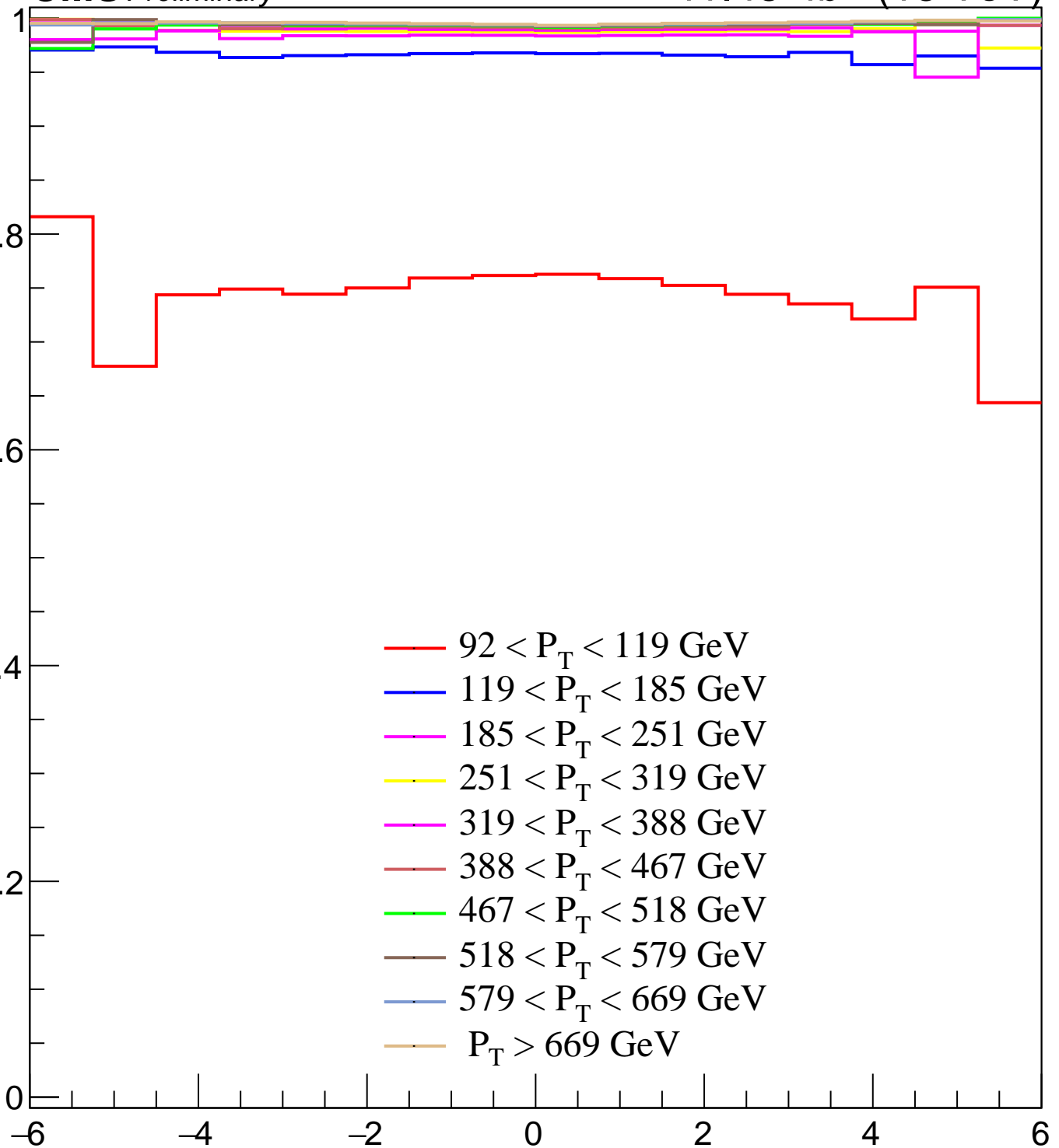
- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_1}^{k=0.9}$ 



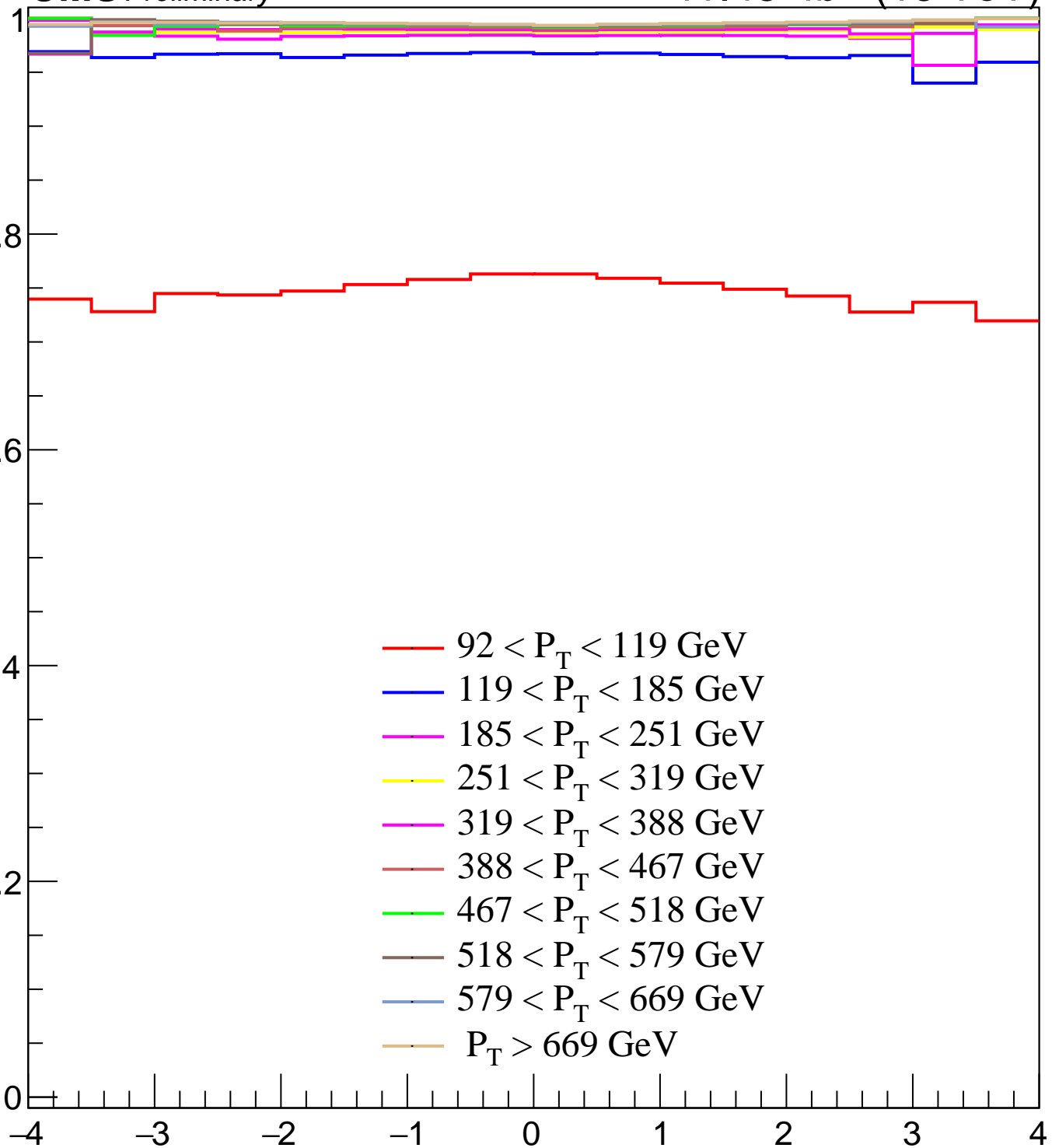
Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_2}^{k=0.1}$ 

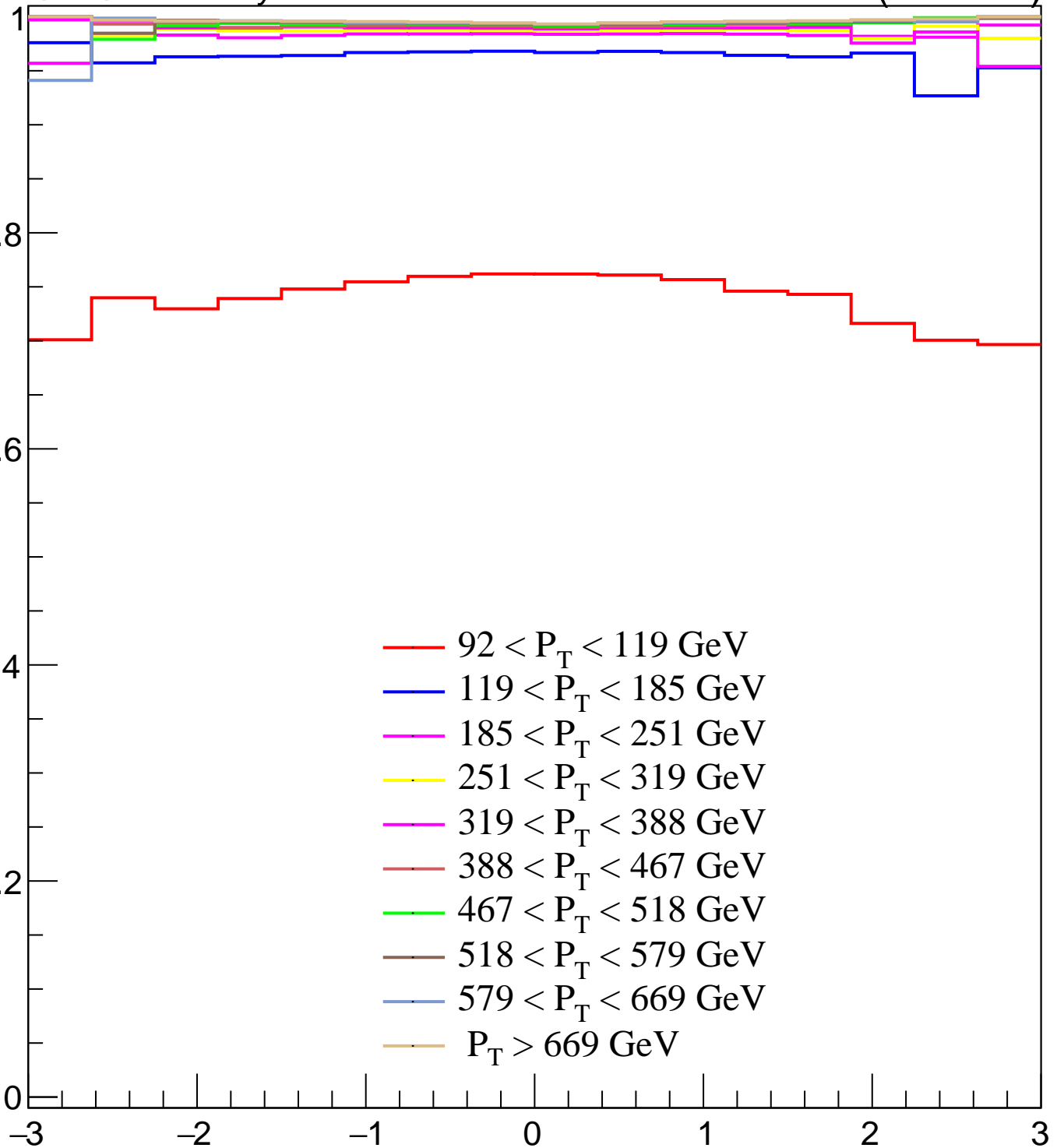
Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_2}^{k=0.2}$ 

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_2}^{k=0.3}$ 

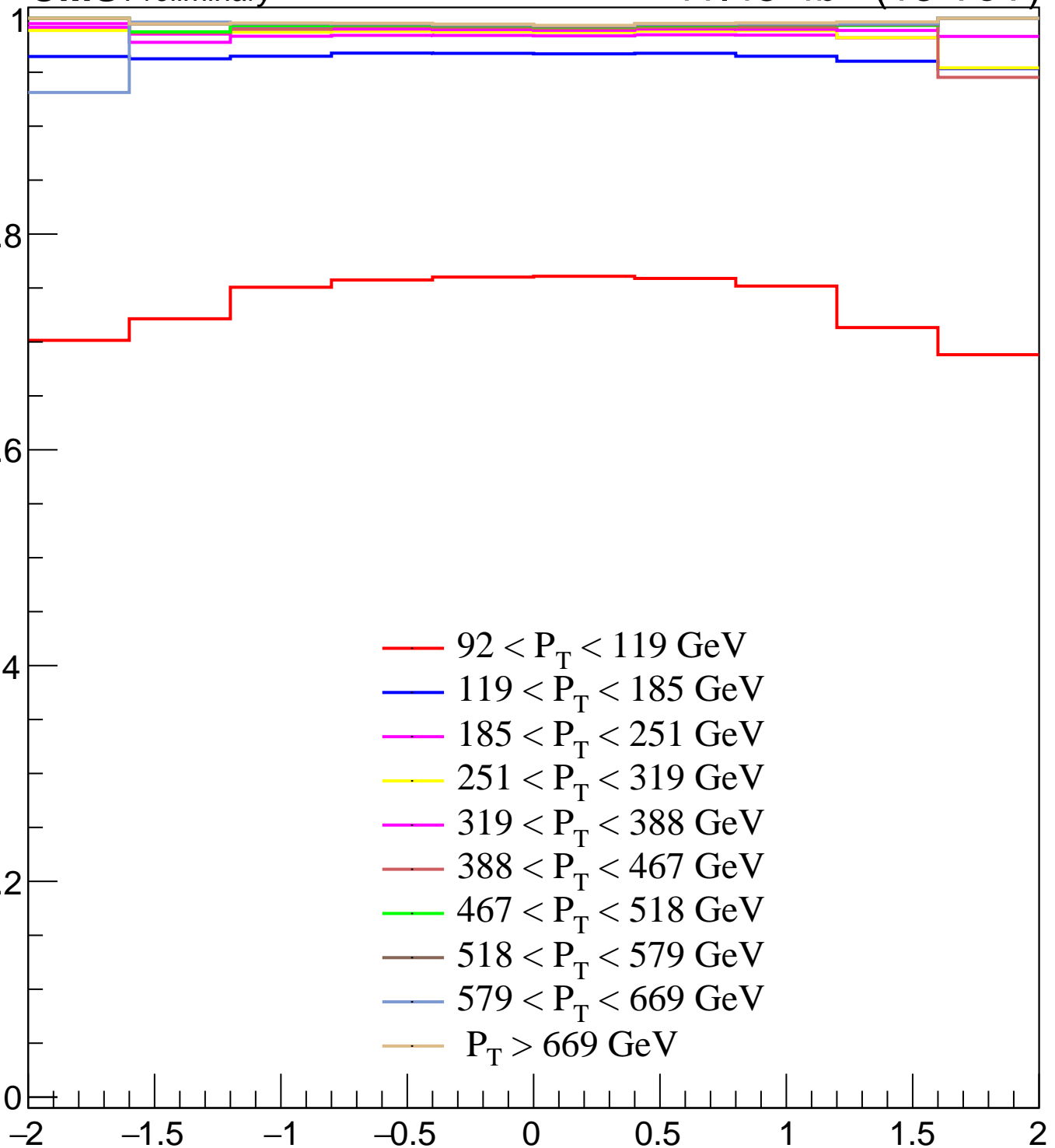
Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_2}^{k=0.4}$

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_2}^{k=0.5}$ 

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_2}^{k=0.6}$

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_2}^{k=0.7}$

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_2}^{k=0.8}$

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

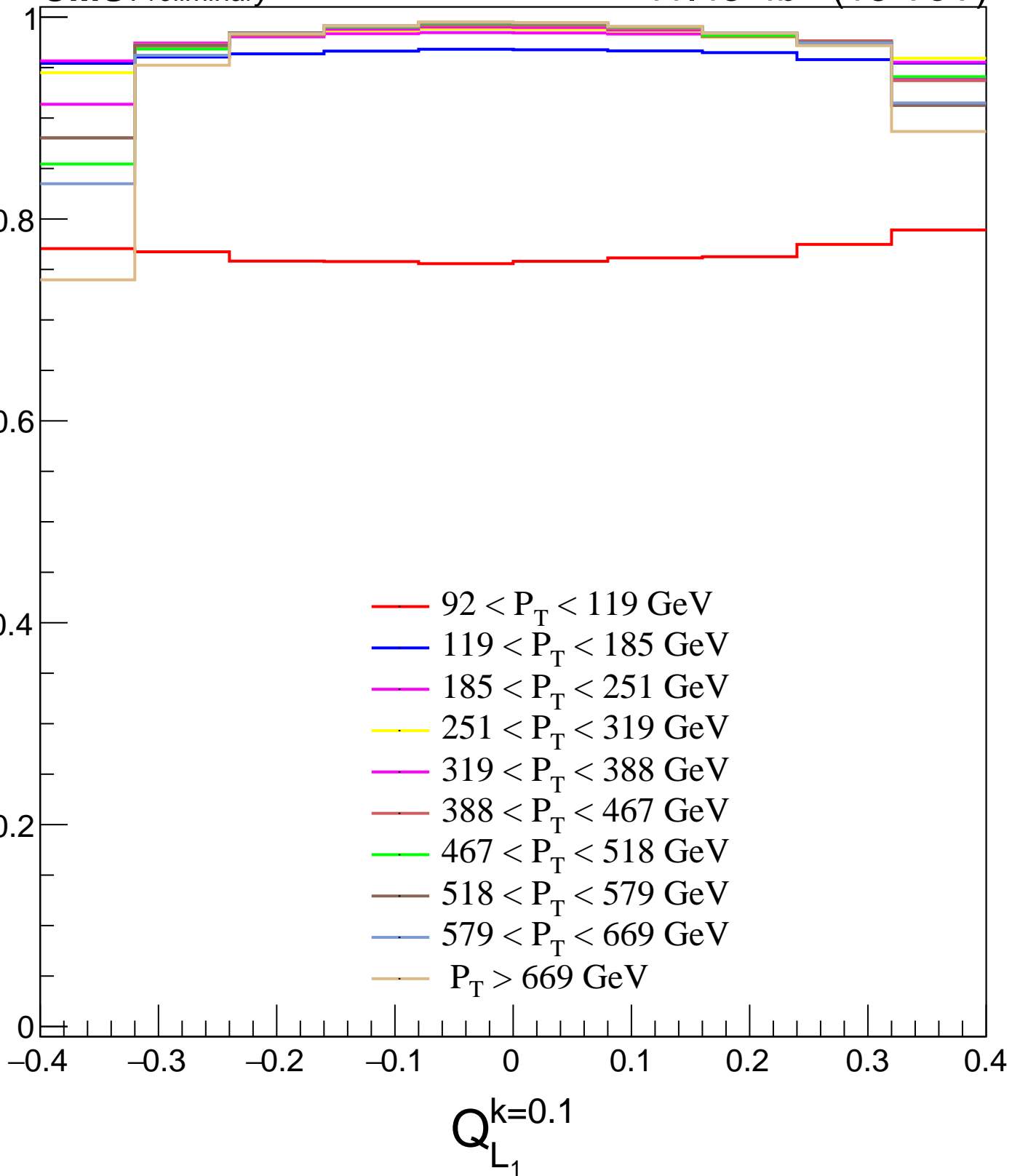
 $Q_{D_2}^{k=0.9}$

Efficiency

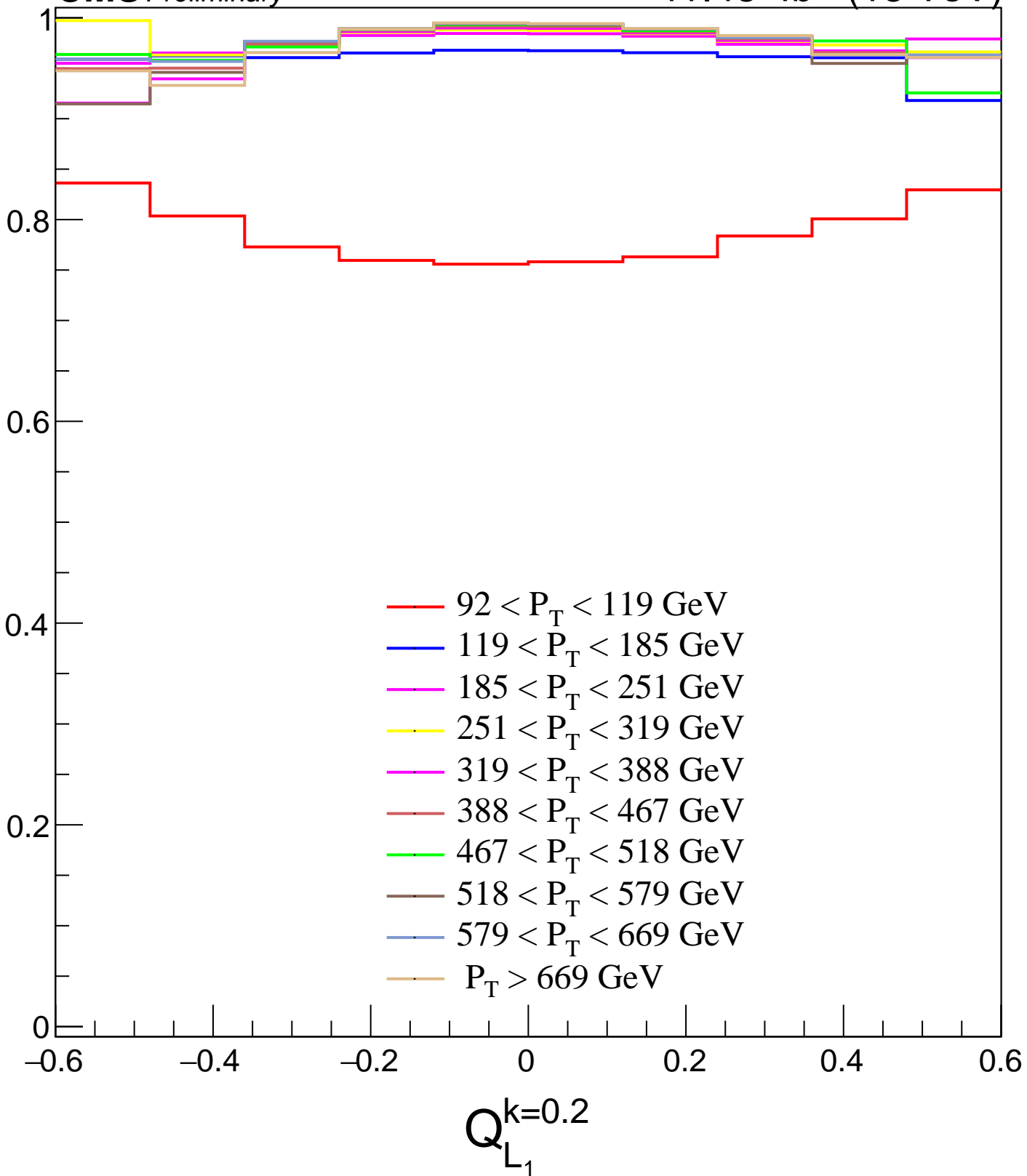
- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{D_2}^{k=1.0}$

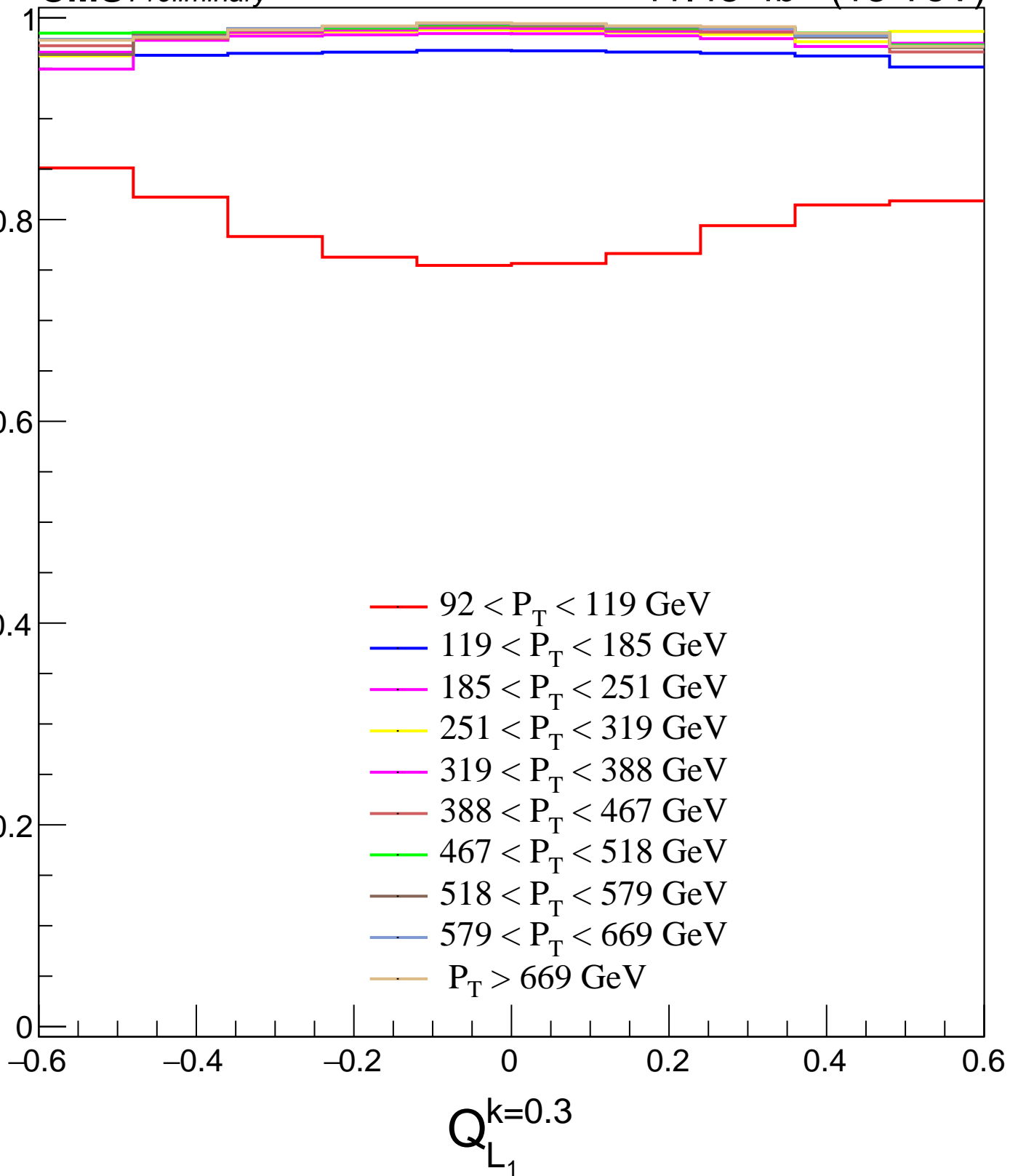
Efficiency



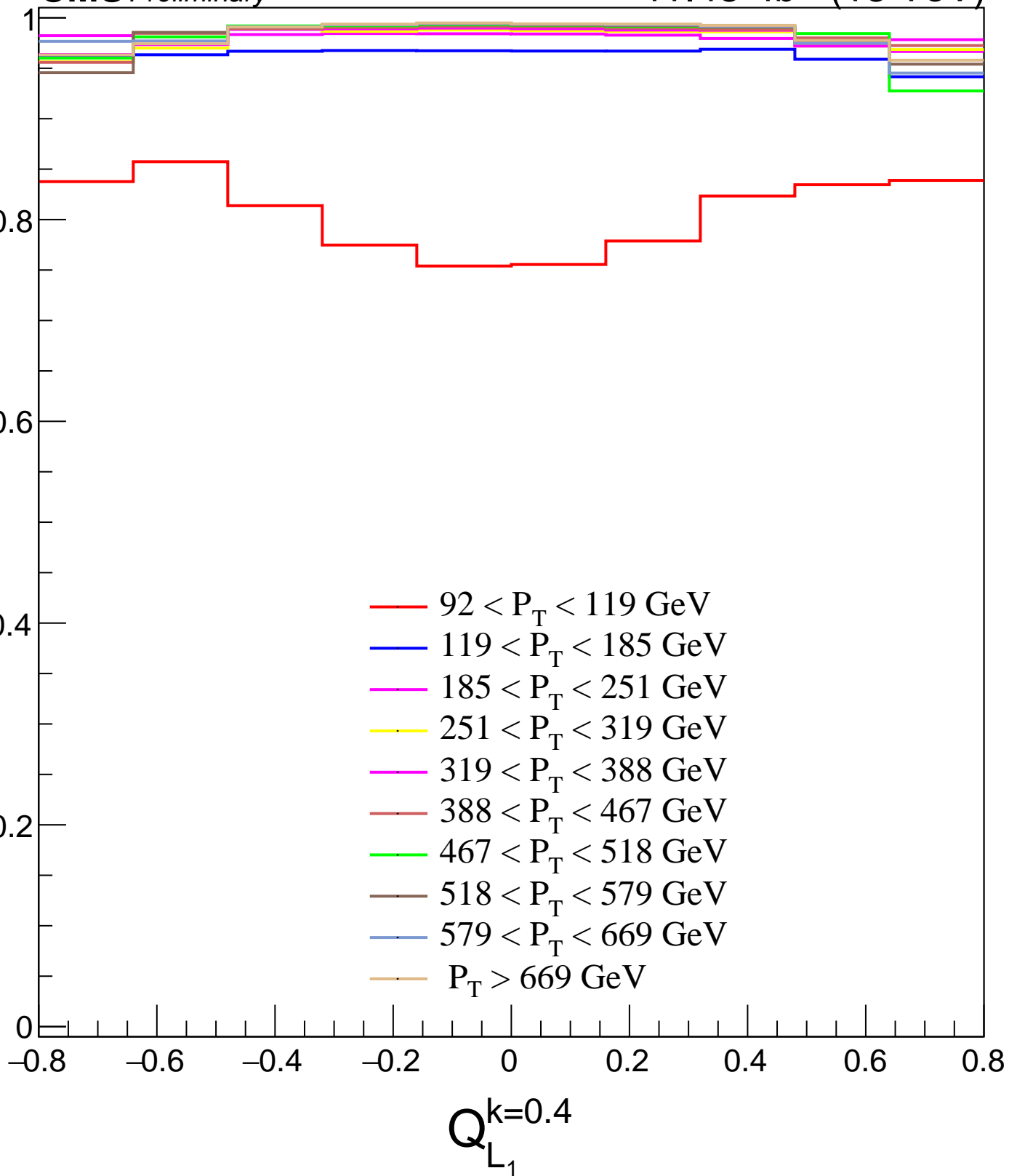
Efficiency



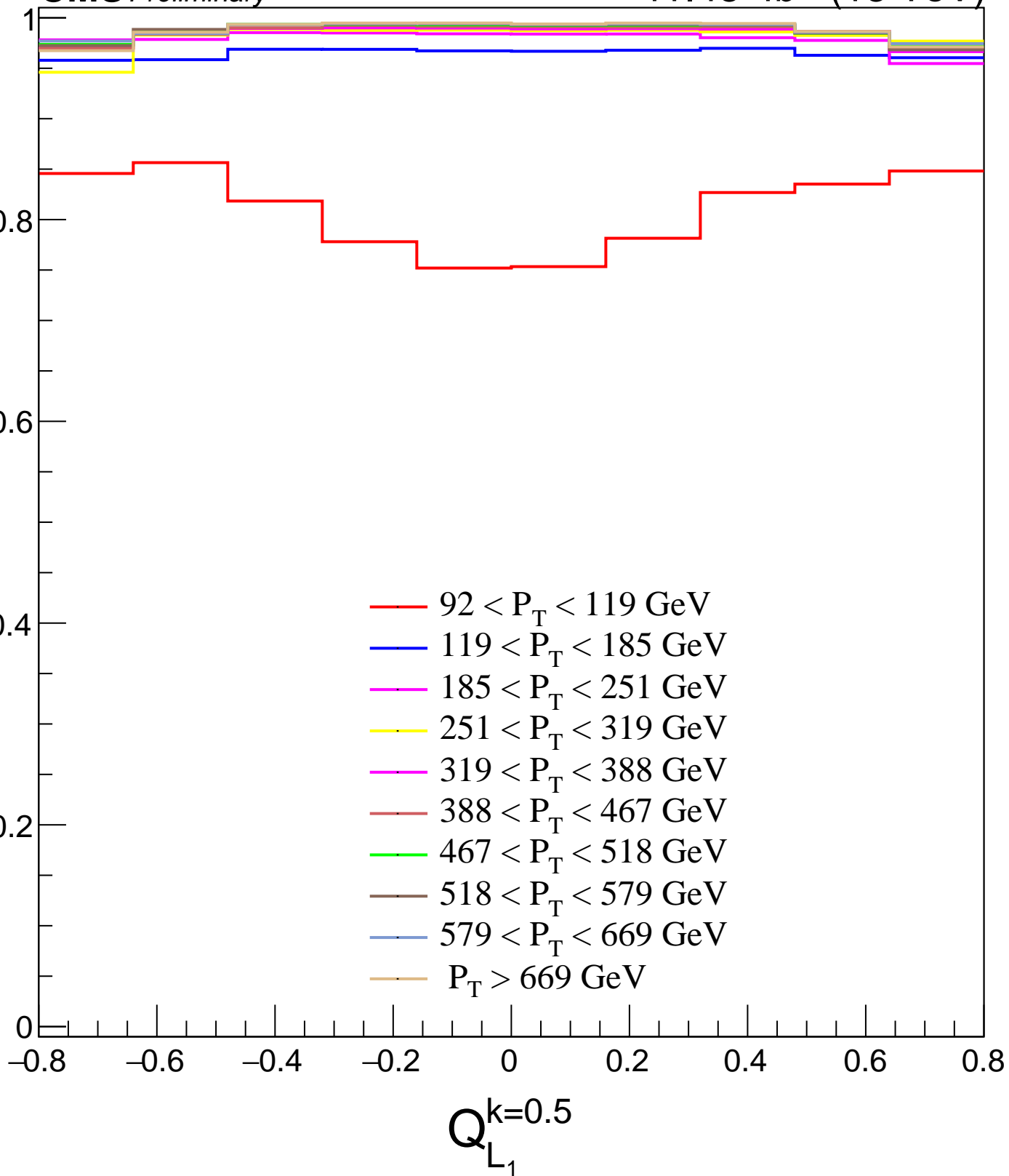
Efficiency



Efficiency

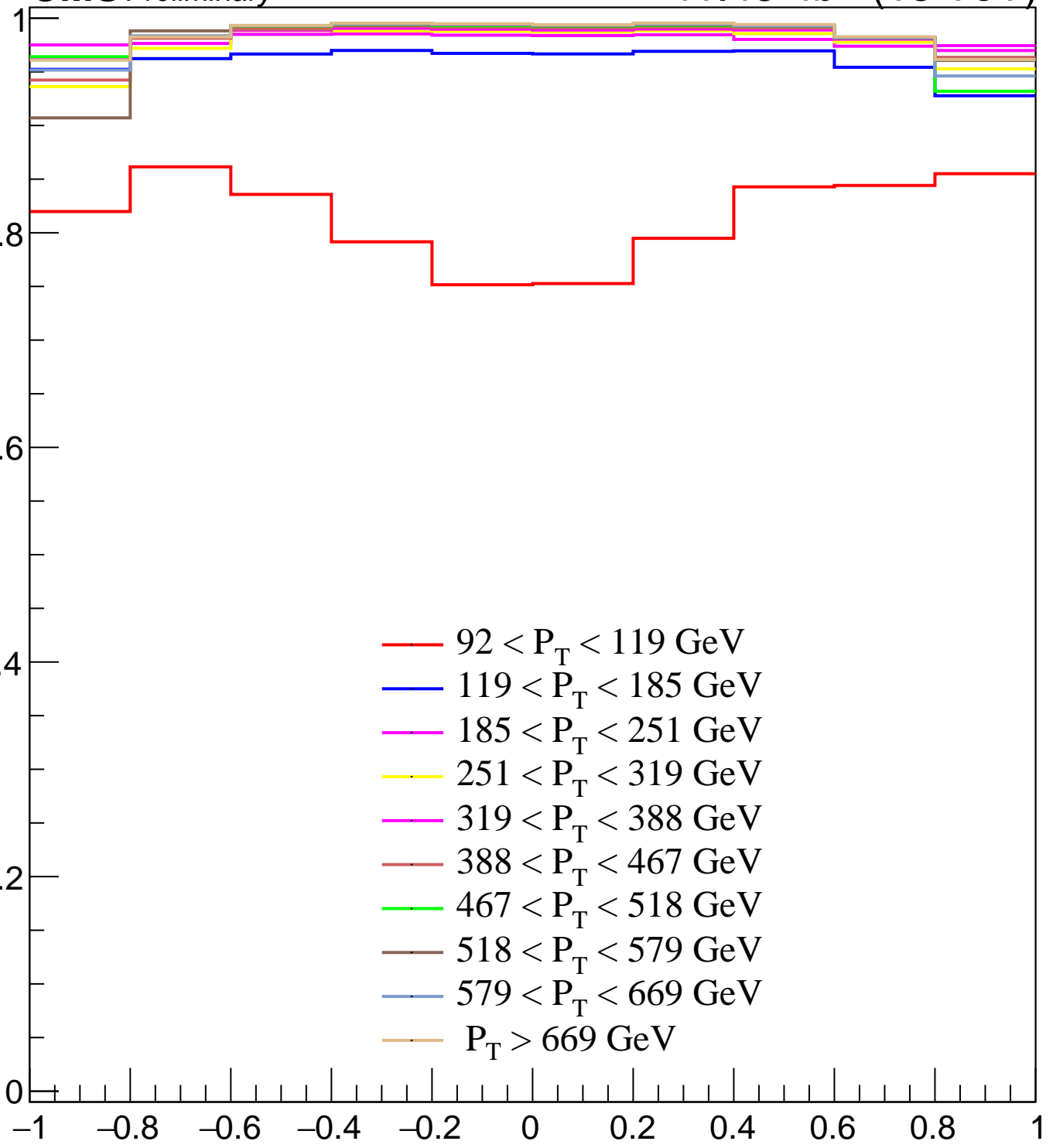


Efficiency

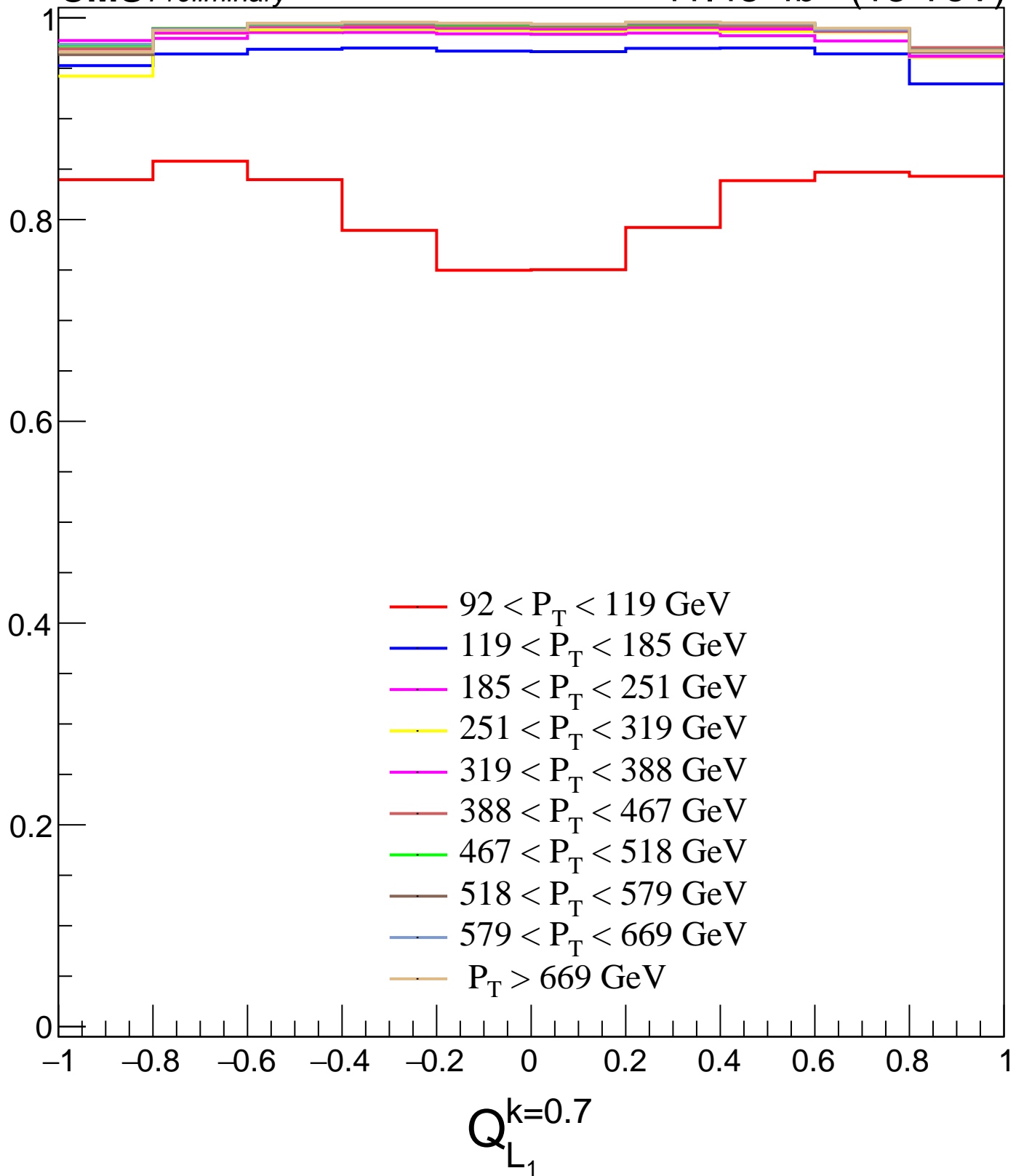


Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

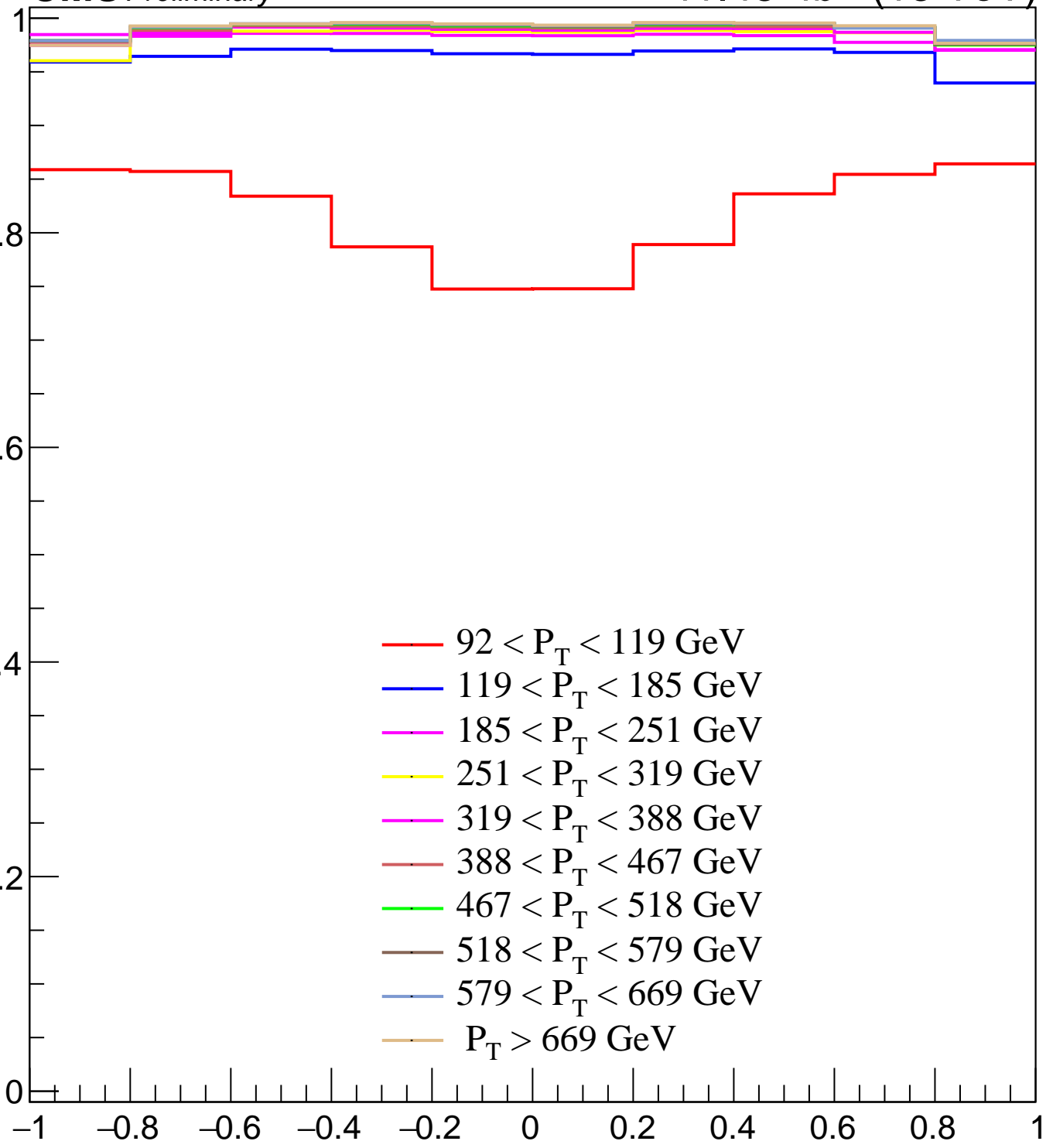
 $Q_{L_1}^{k=0.6}$ 

Efficiency

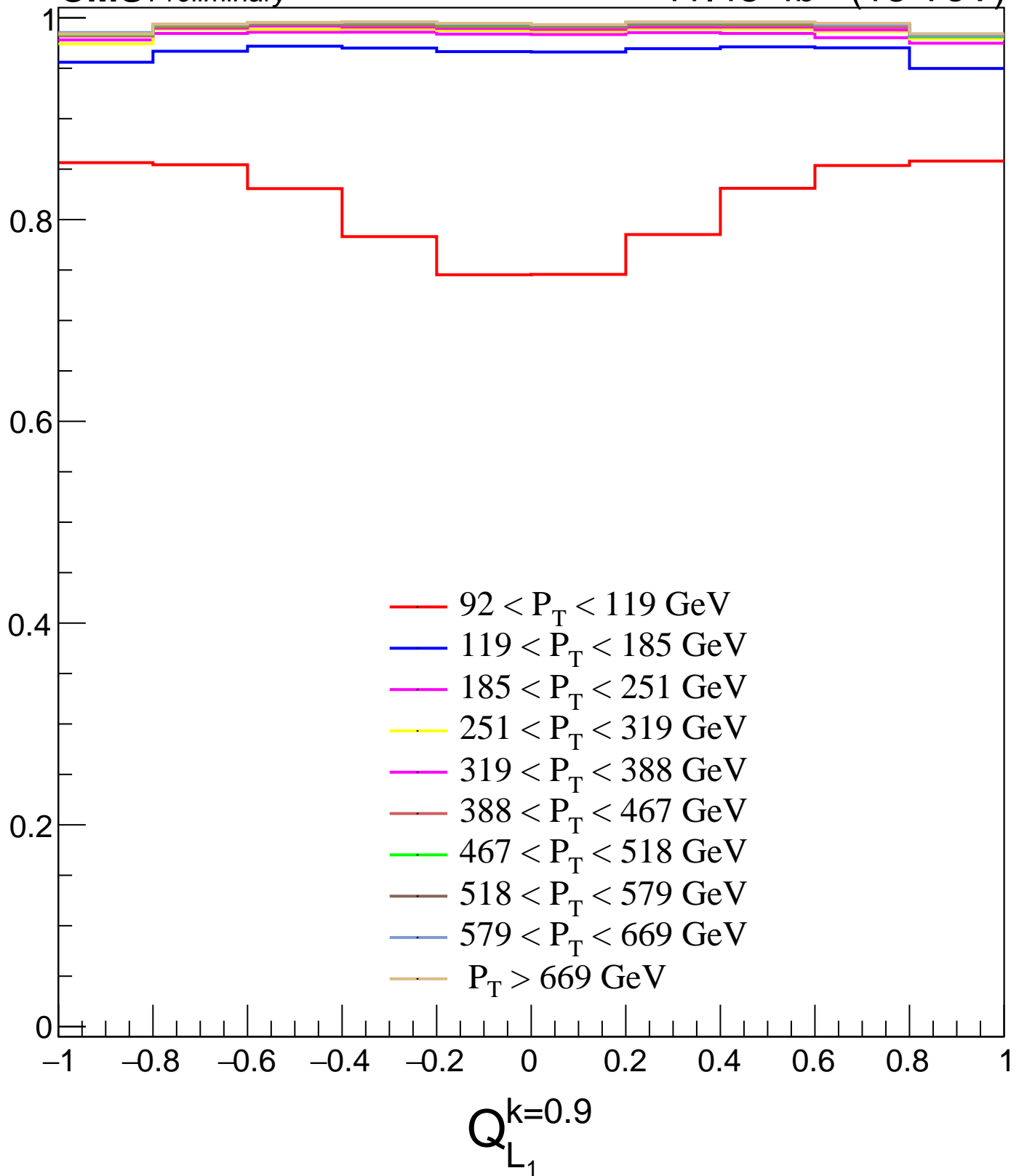


Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

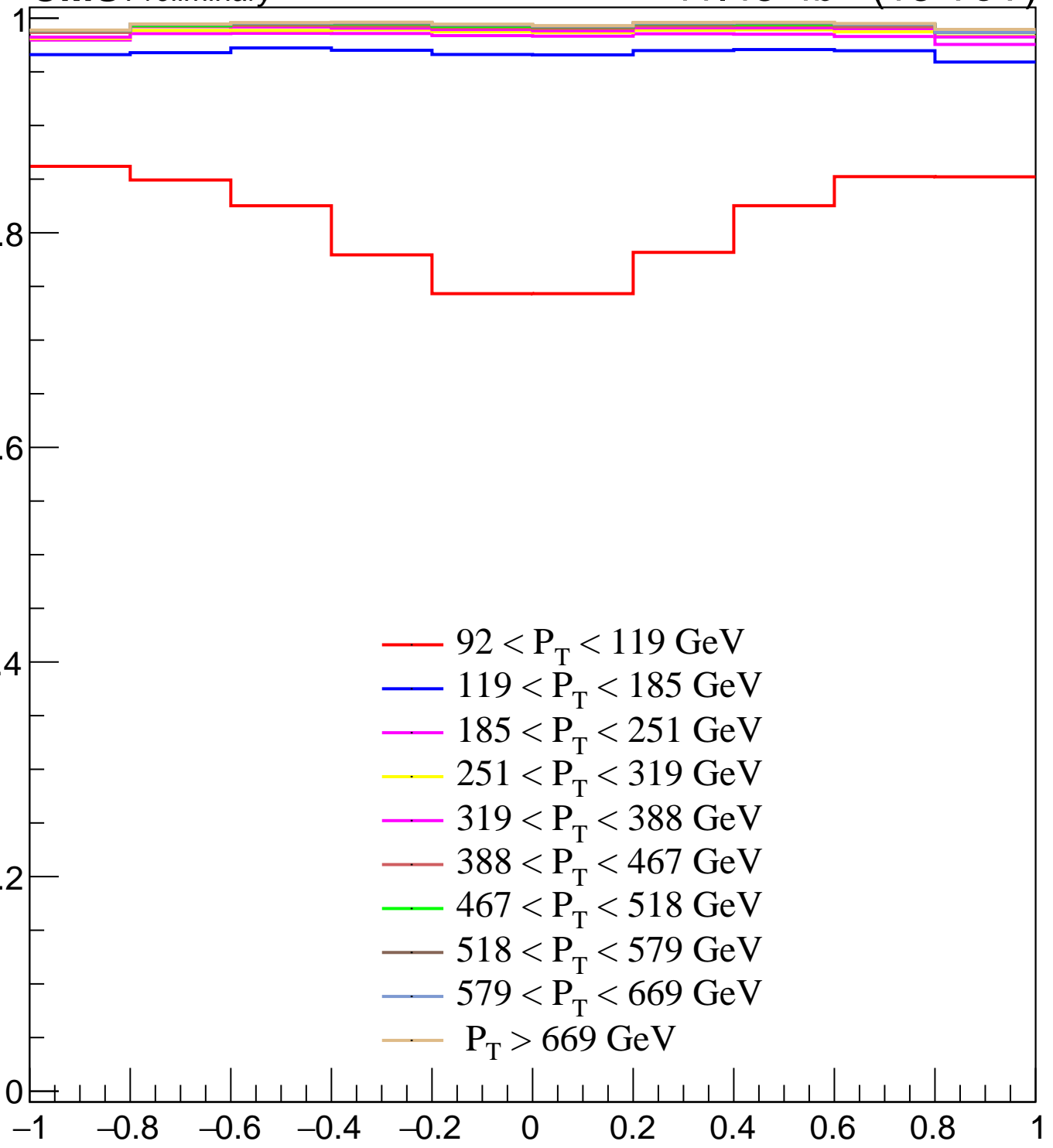
 $Q_{L_1}^{k=0.8}$ 

Efficiency

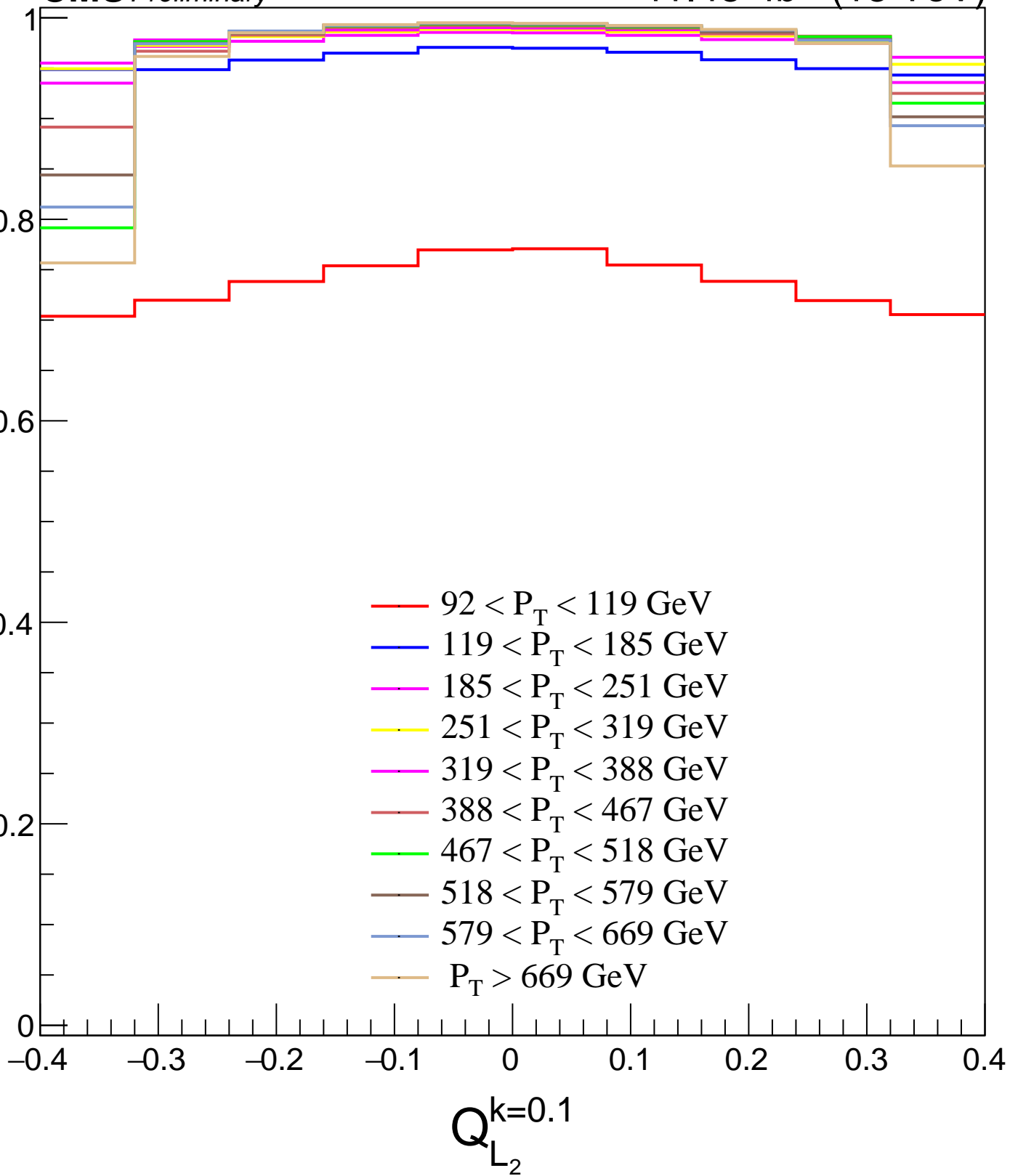


Efficiency

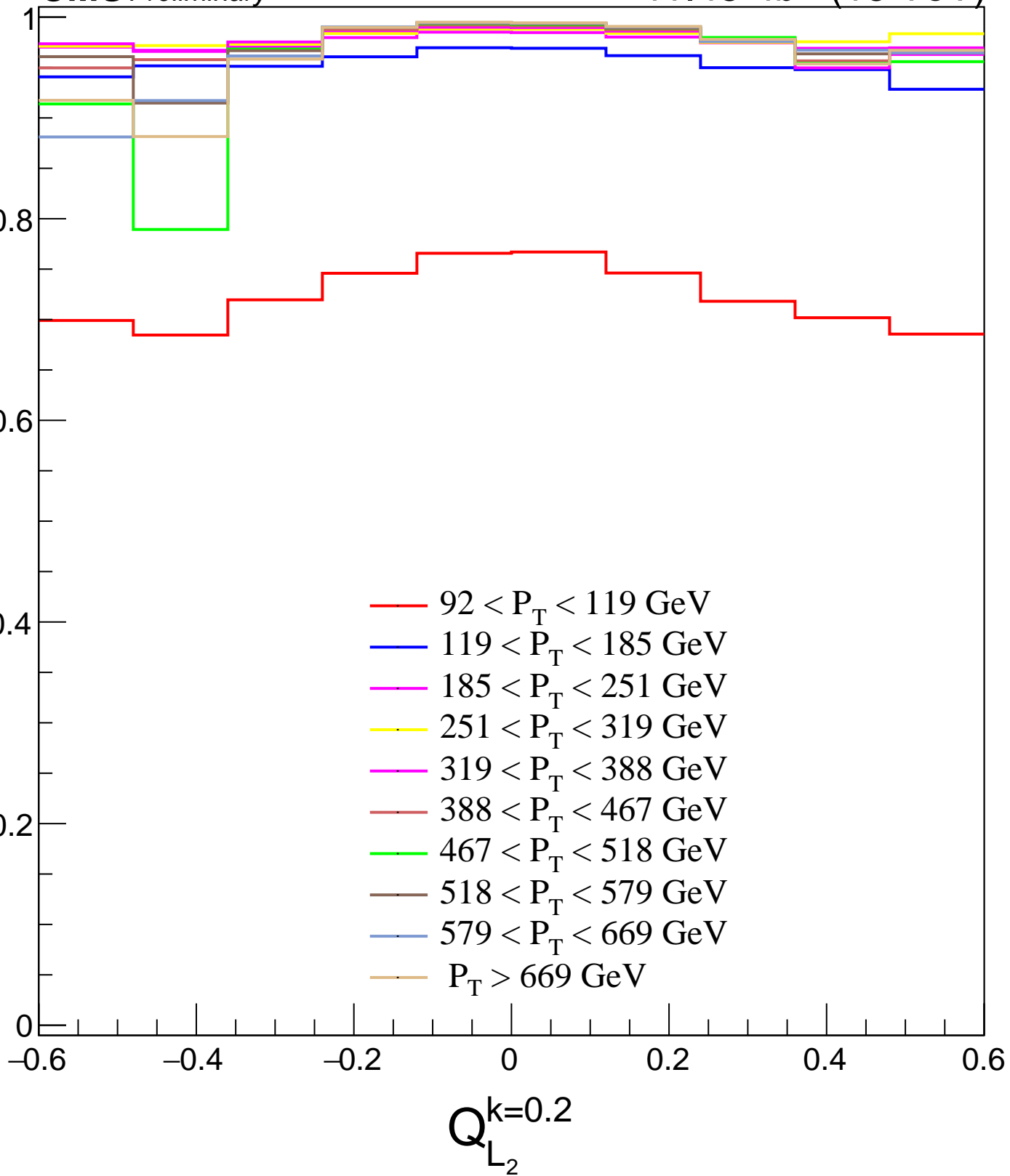
- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

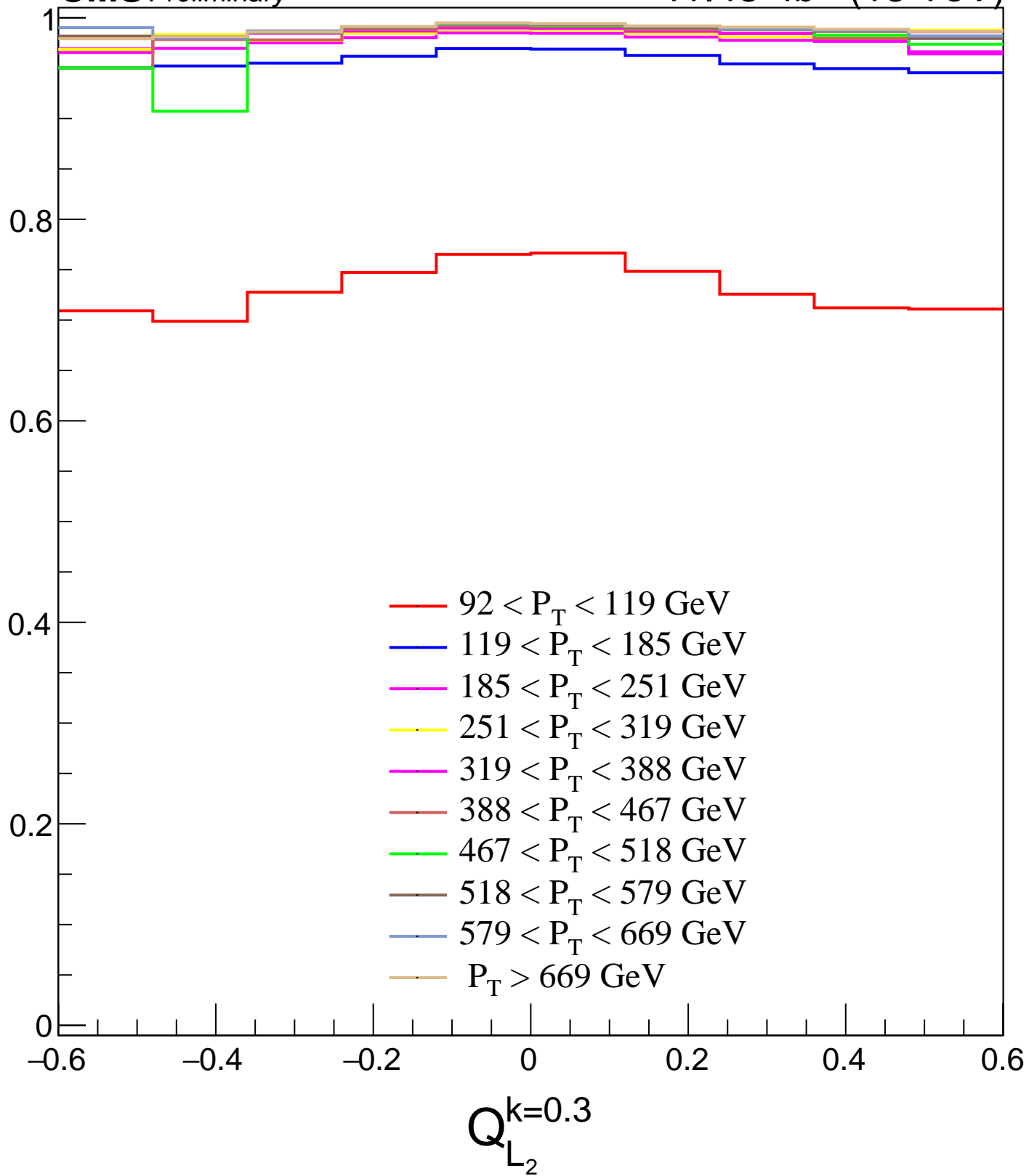
 $Q_{L_1}^{k=1.0}$ 

Efficiency

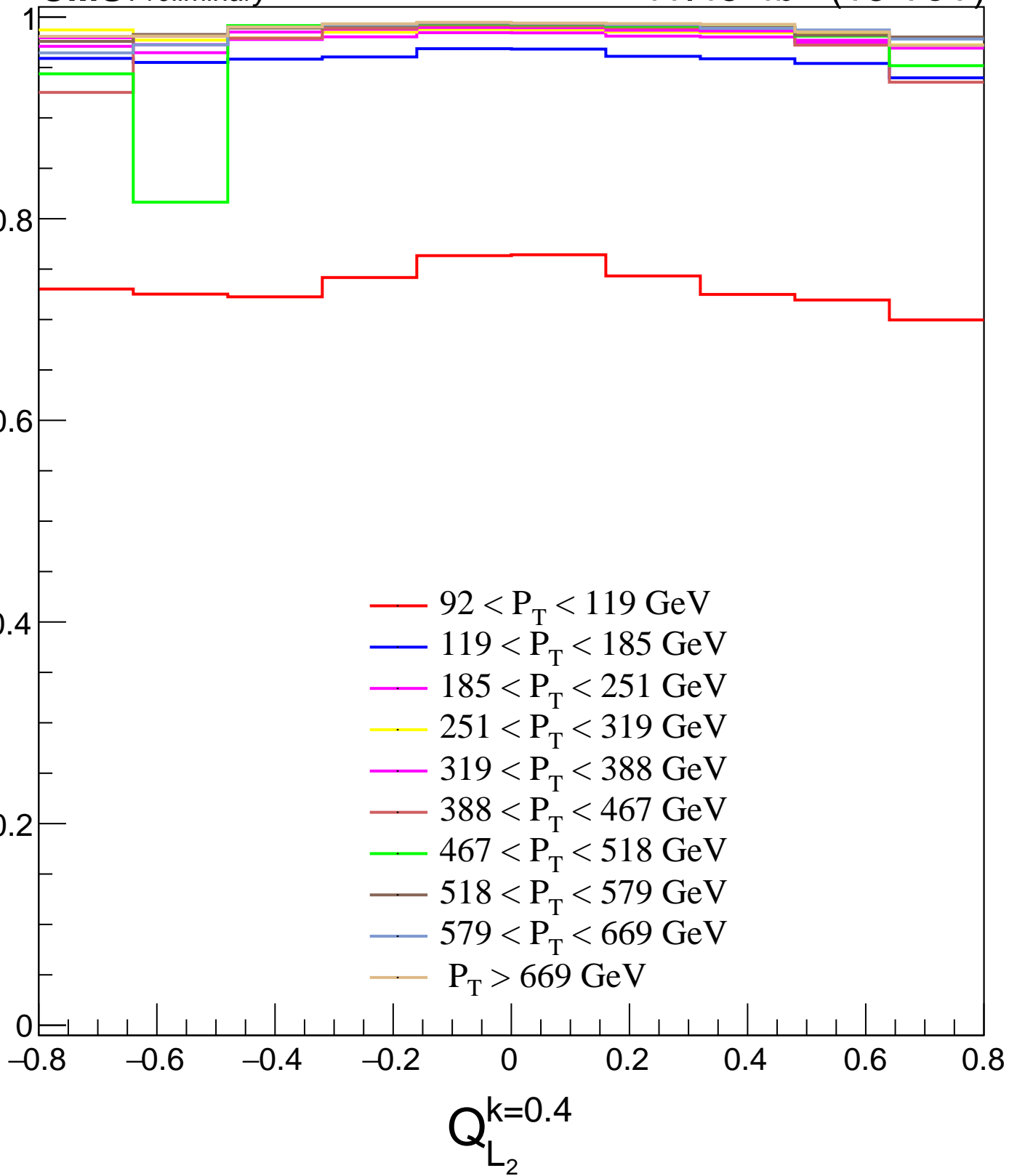


Efficiency

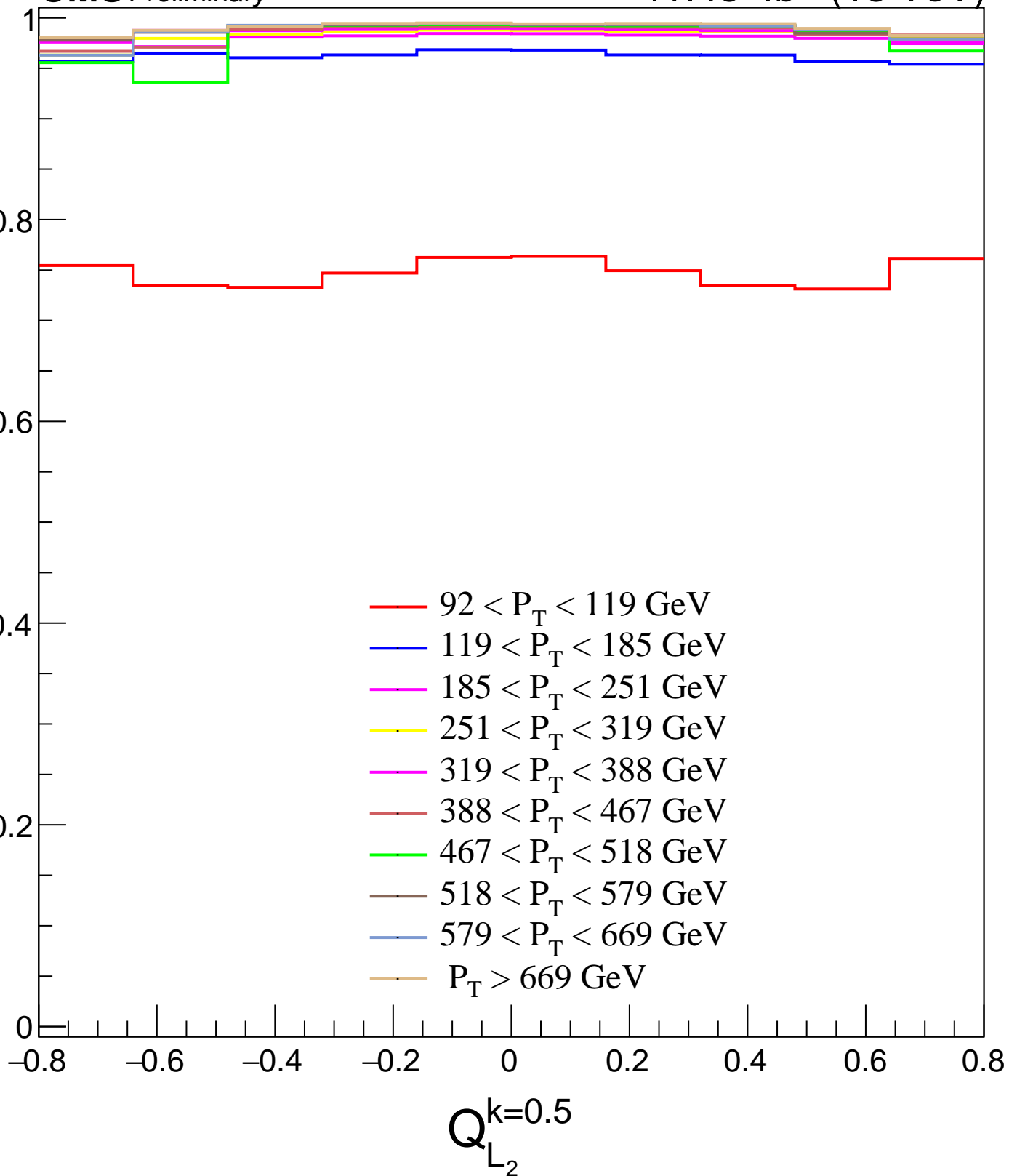




Efficiency



Efficiency



Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{L_2}^{k=0.6}$

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{L_2}^{k=0.7}$

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{L_2}^{k=0.8}$

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

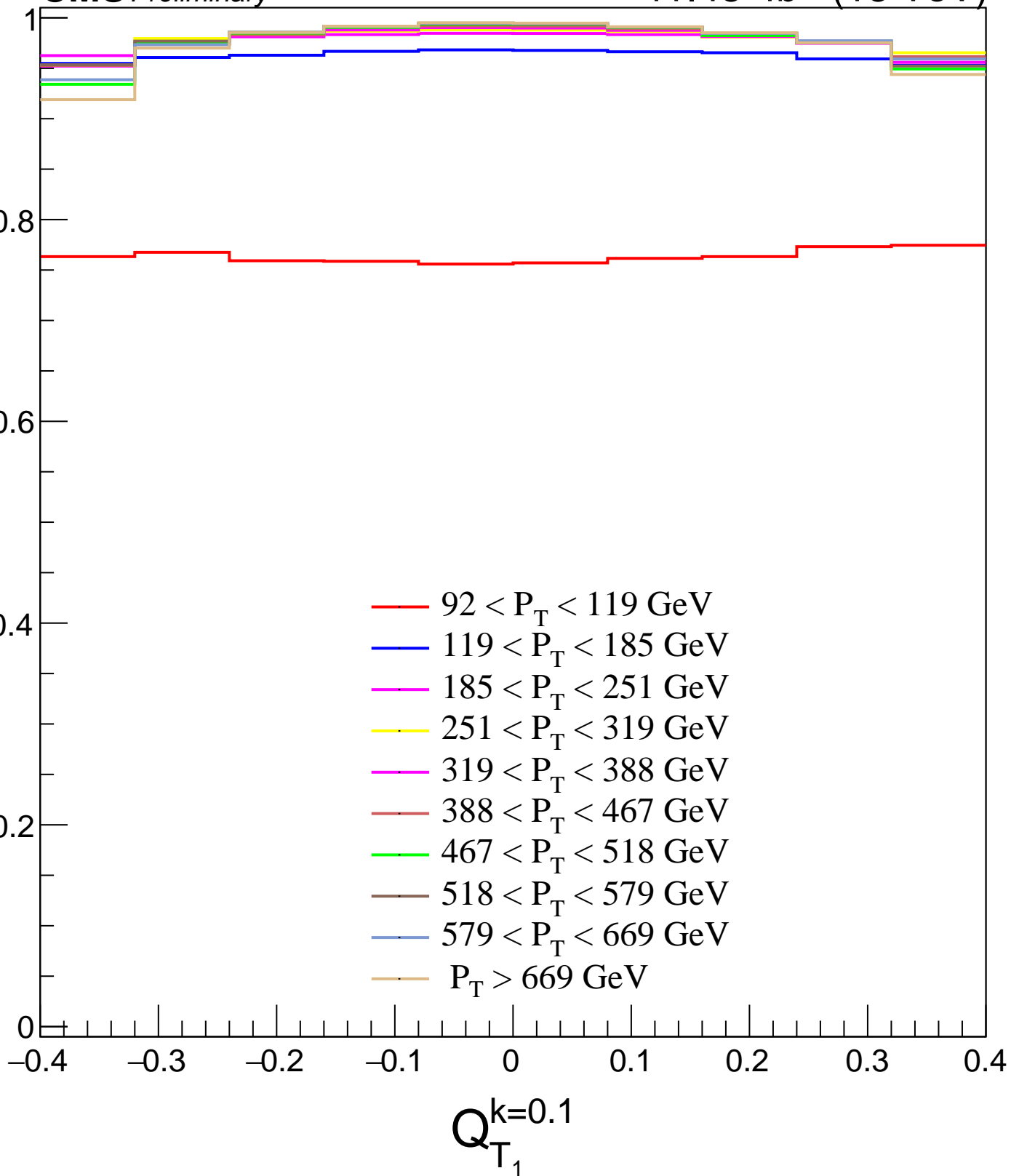
 $Q_{L_2}^{k=0.9}$

Efficiency

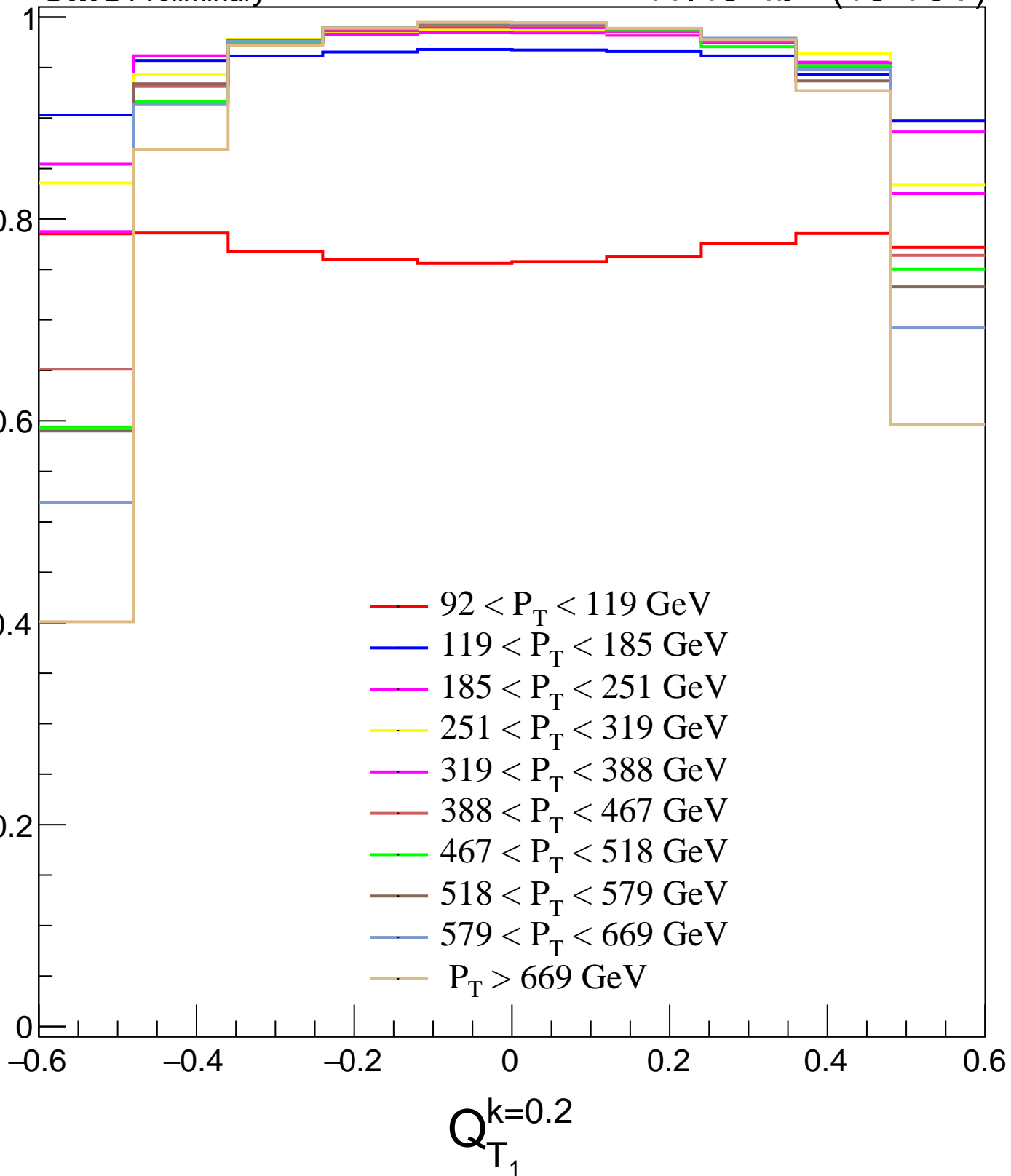
- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{L_2}^{k=1.0}$

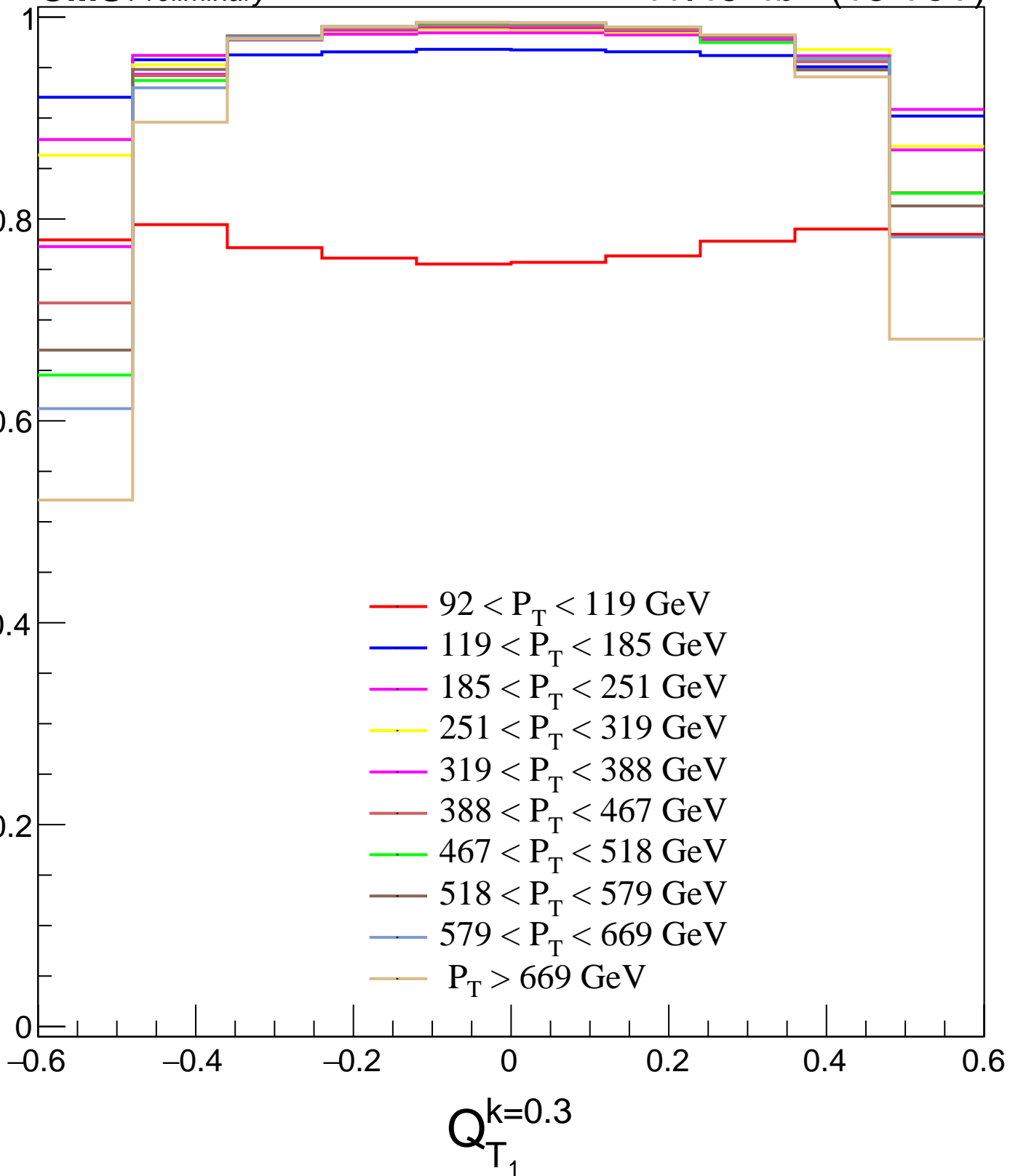
Efficiency



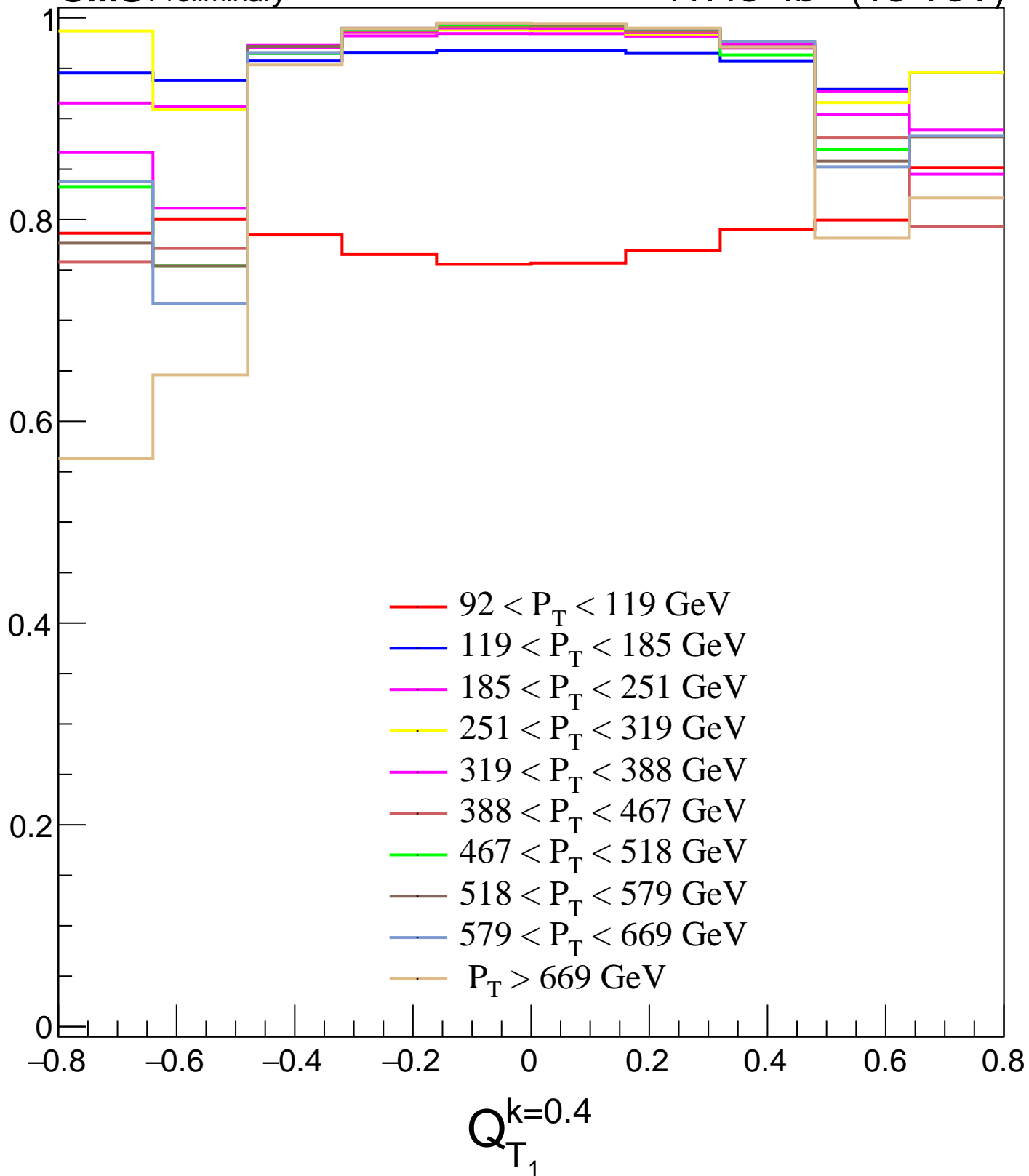
Efficiency



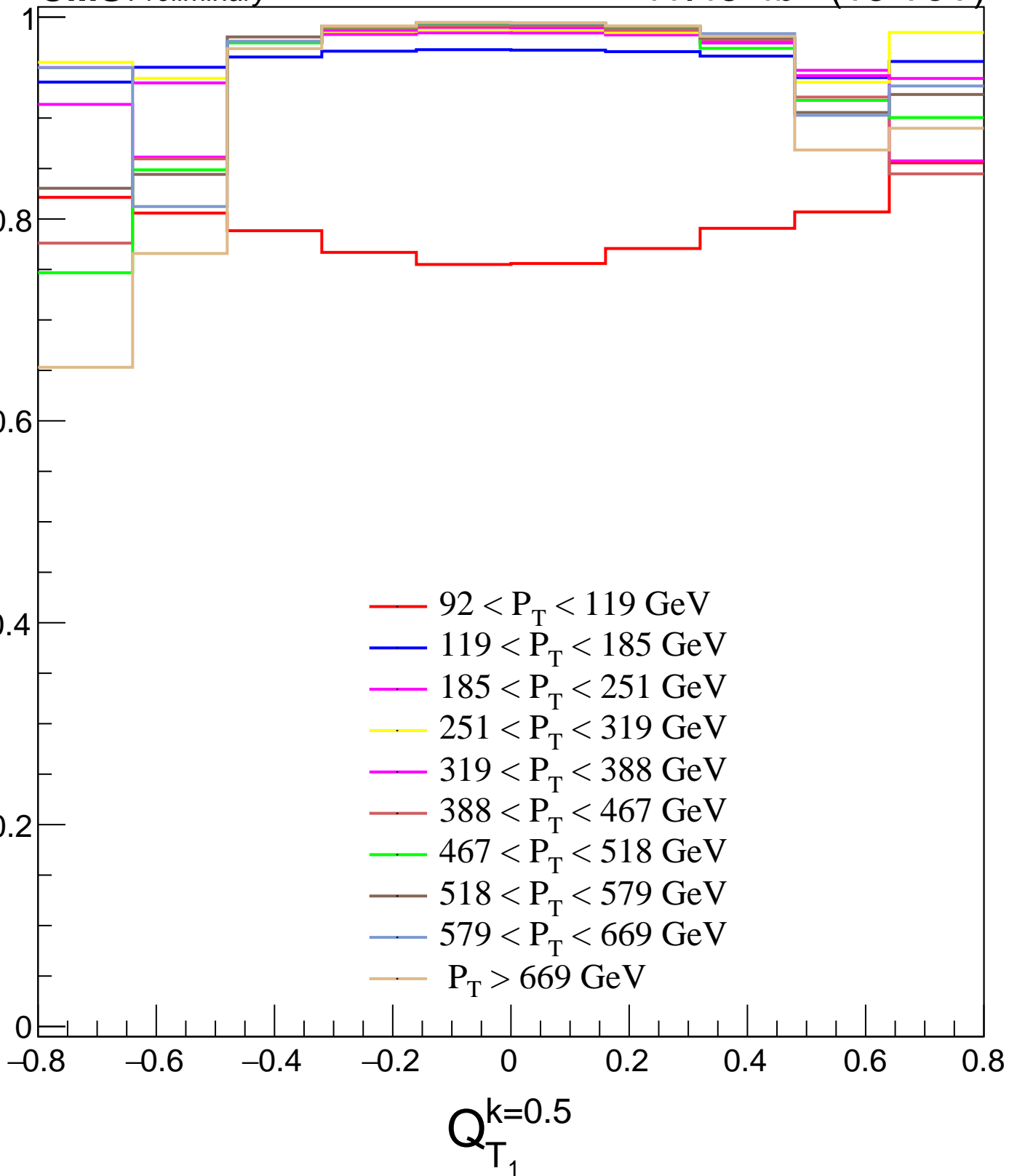
Efficiency



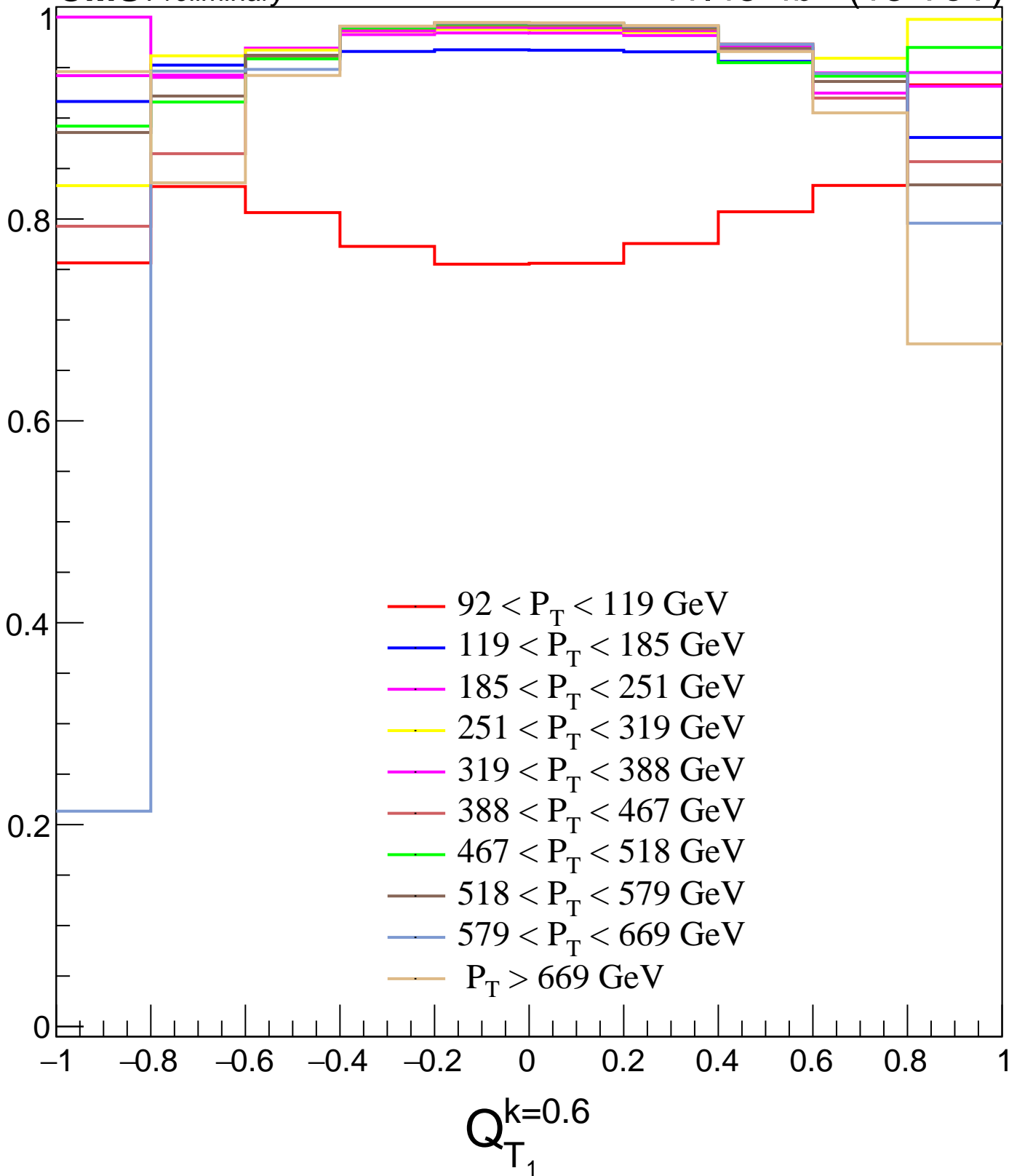
Efficiency



Efficiency

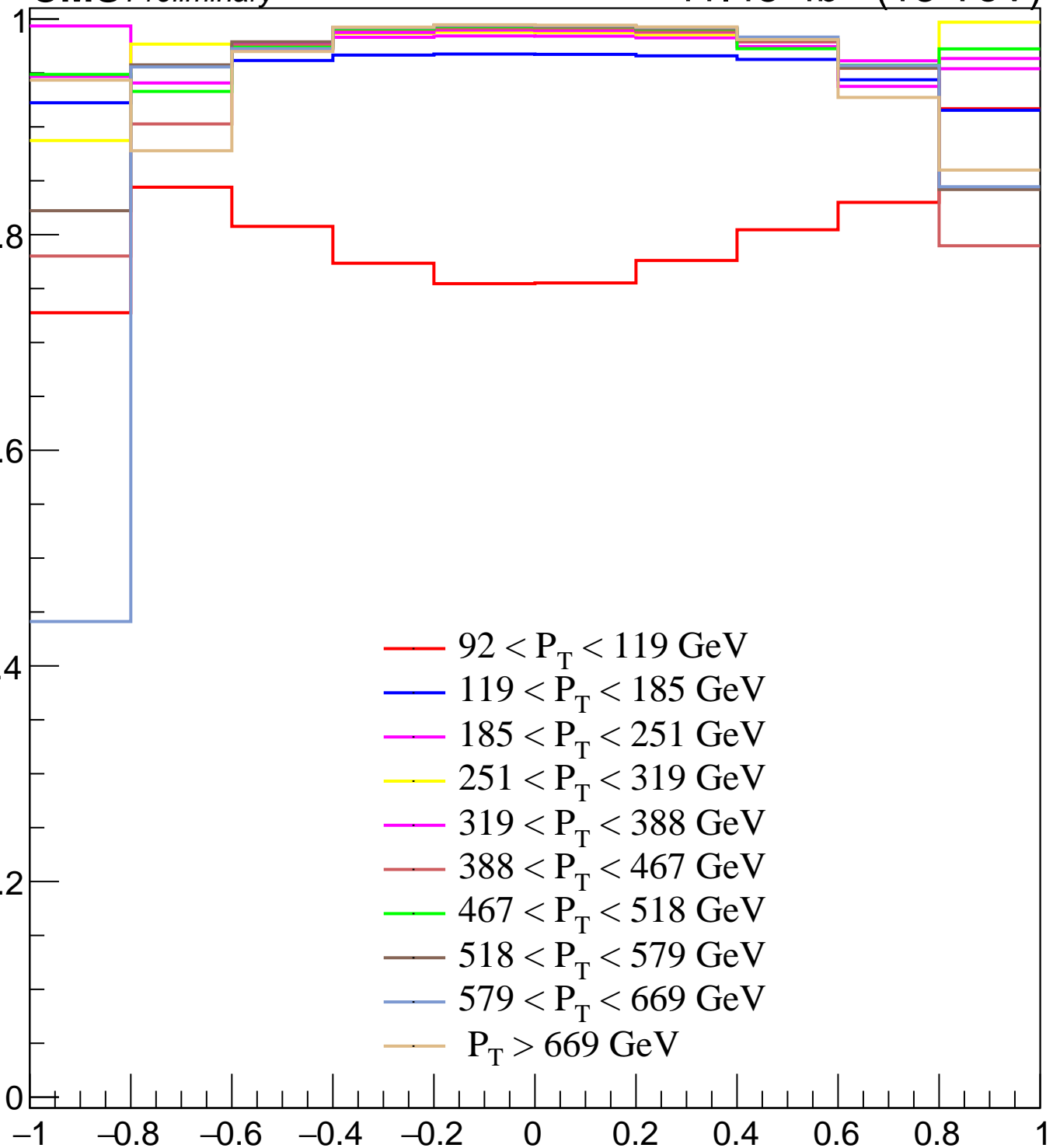


Efficiency



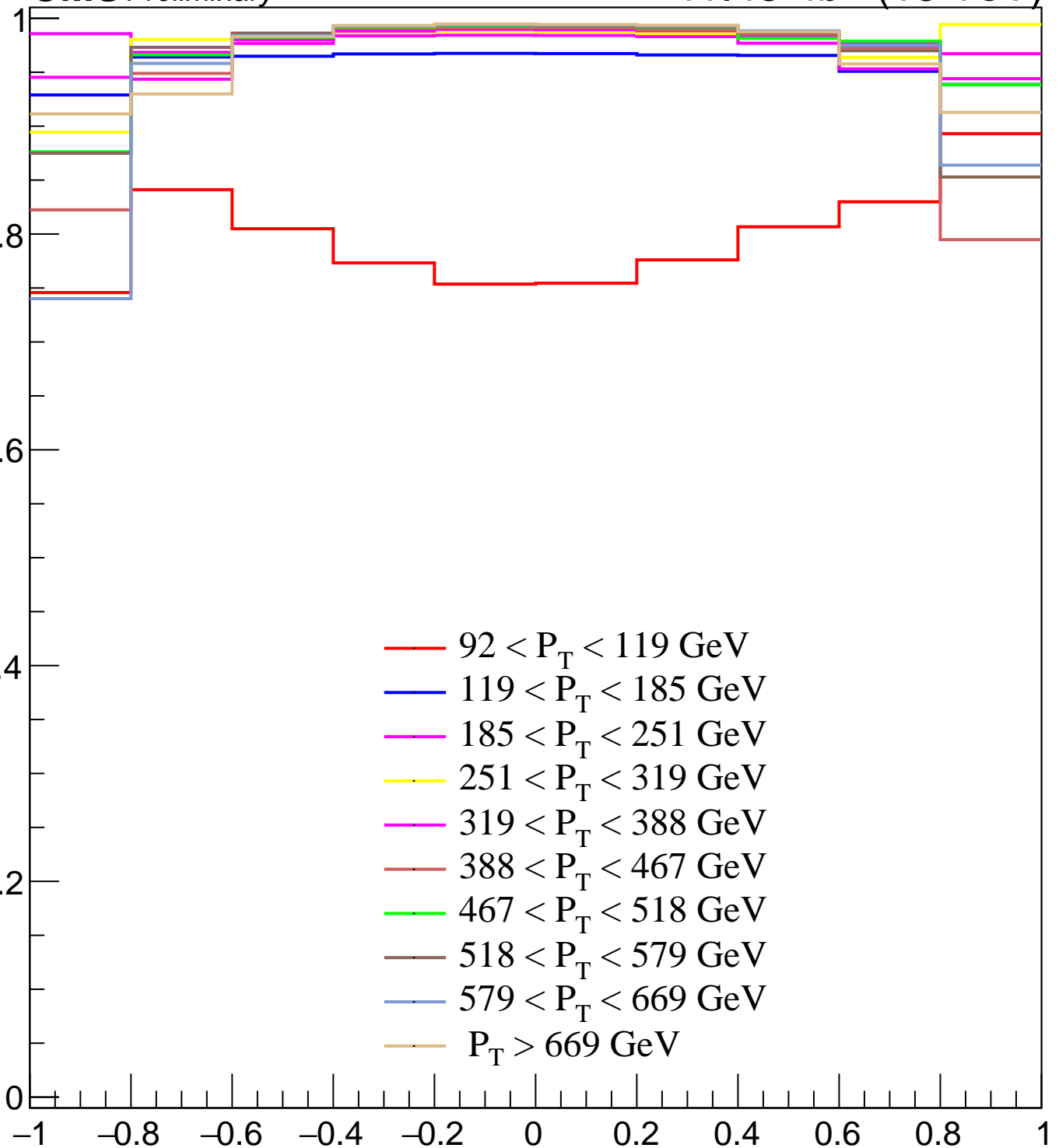
Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{T_1}^{k=0.7}$ 

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

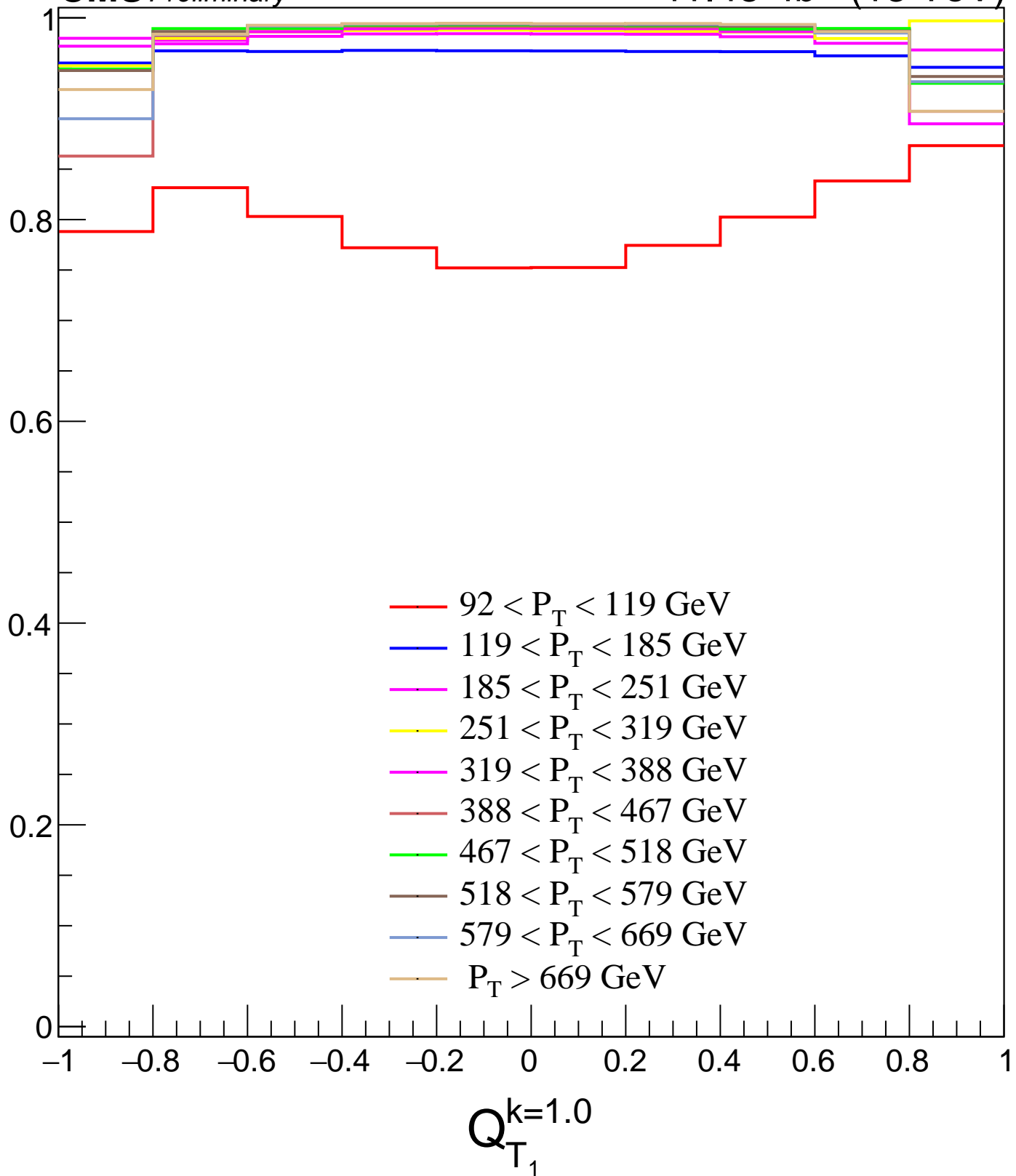
 $Q_{T_1}^{k=0.8}$ 

Efficiency

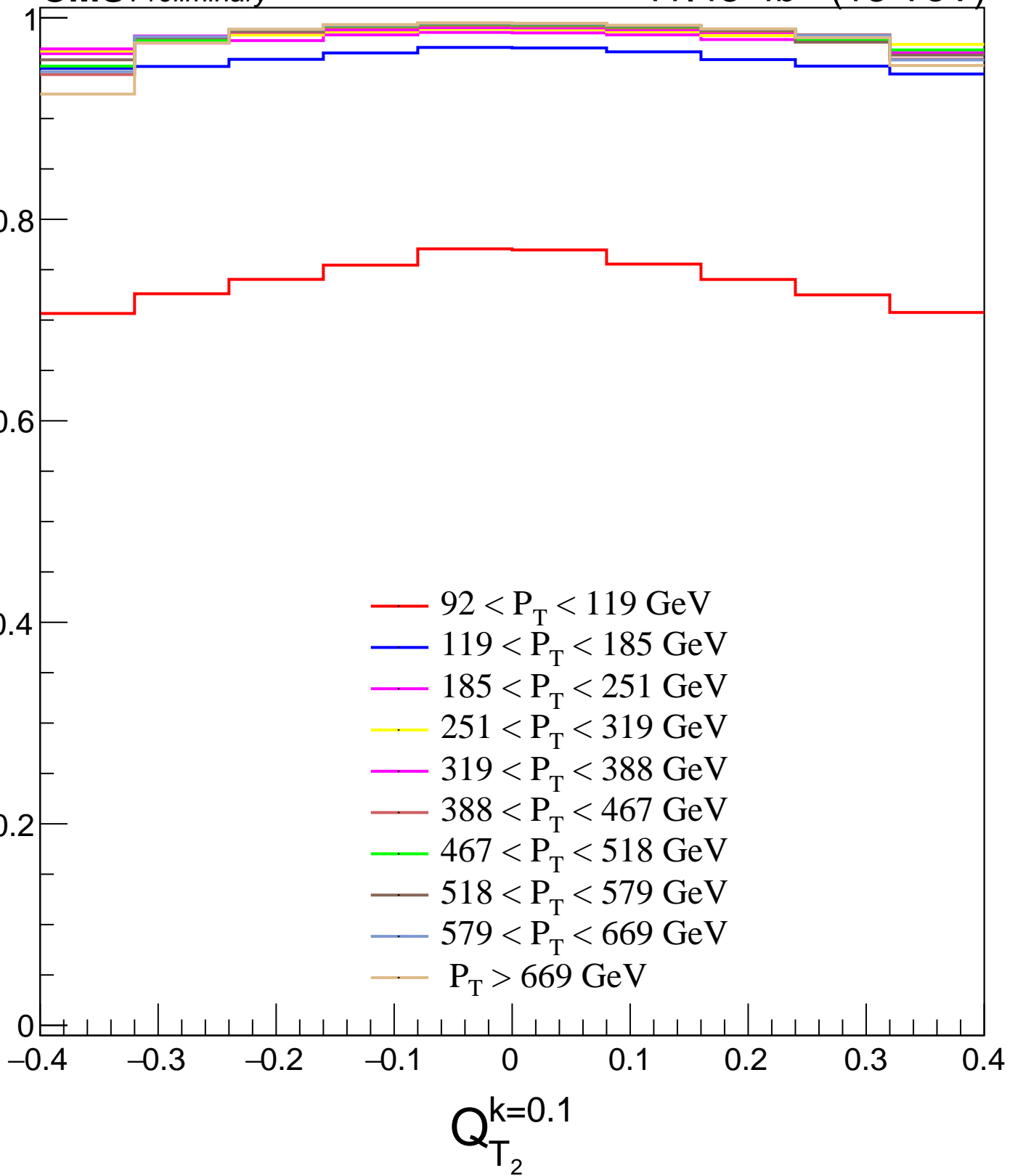
- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{T_1}^{k=0.9}$

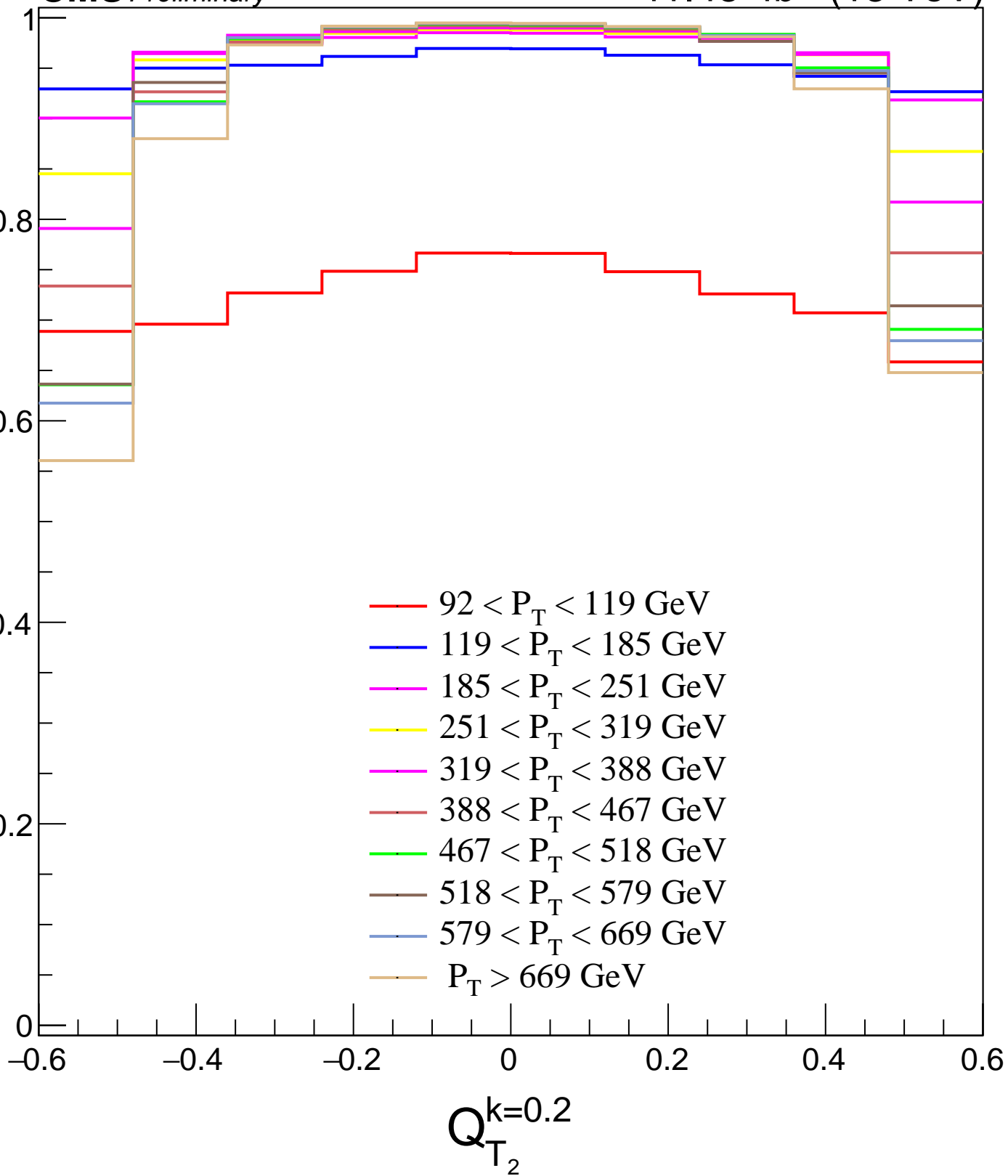
Efficiency

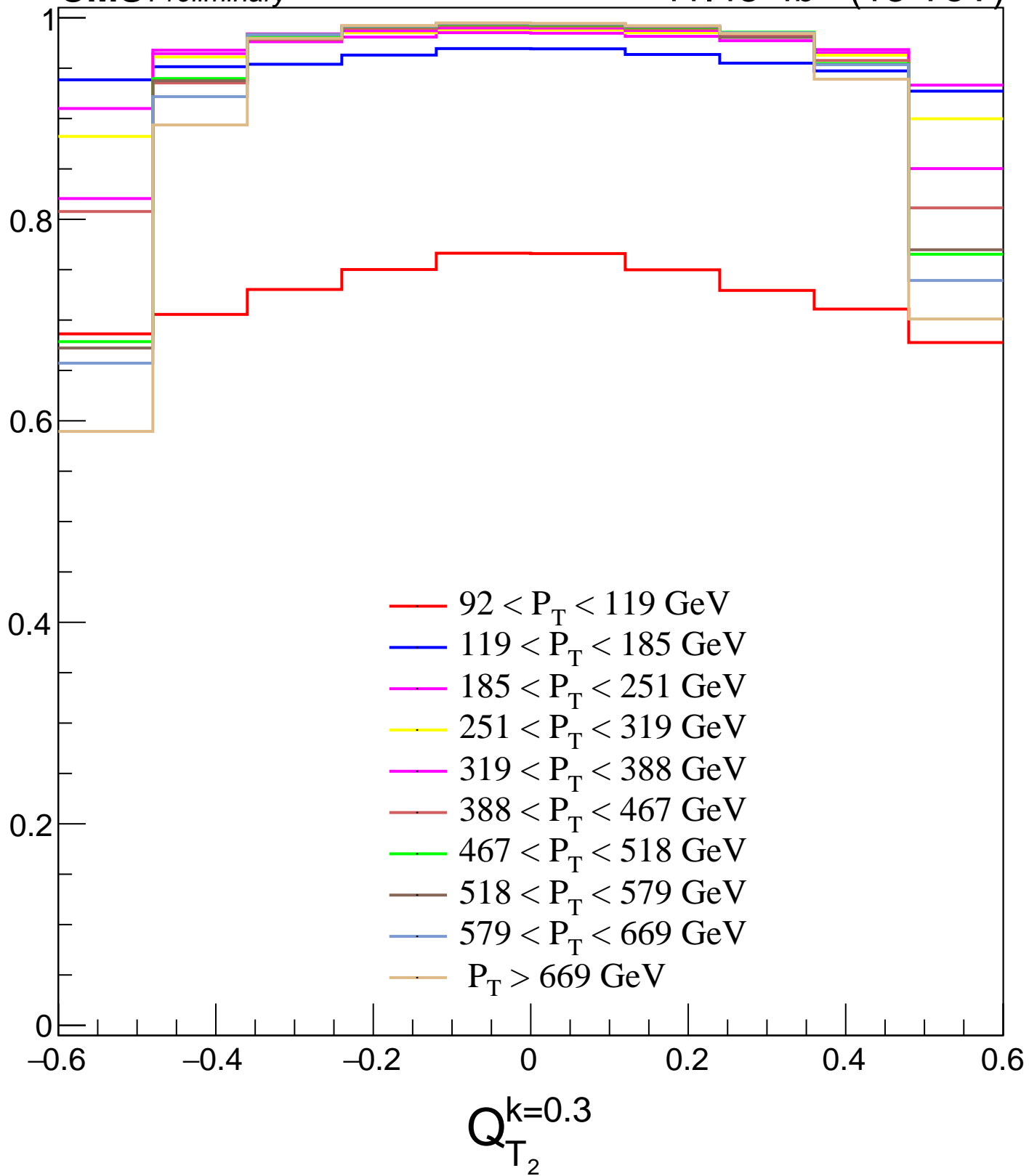


Efficiency

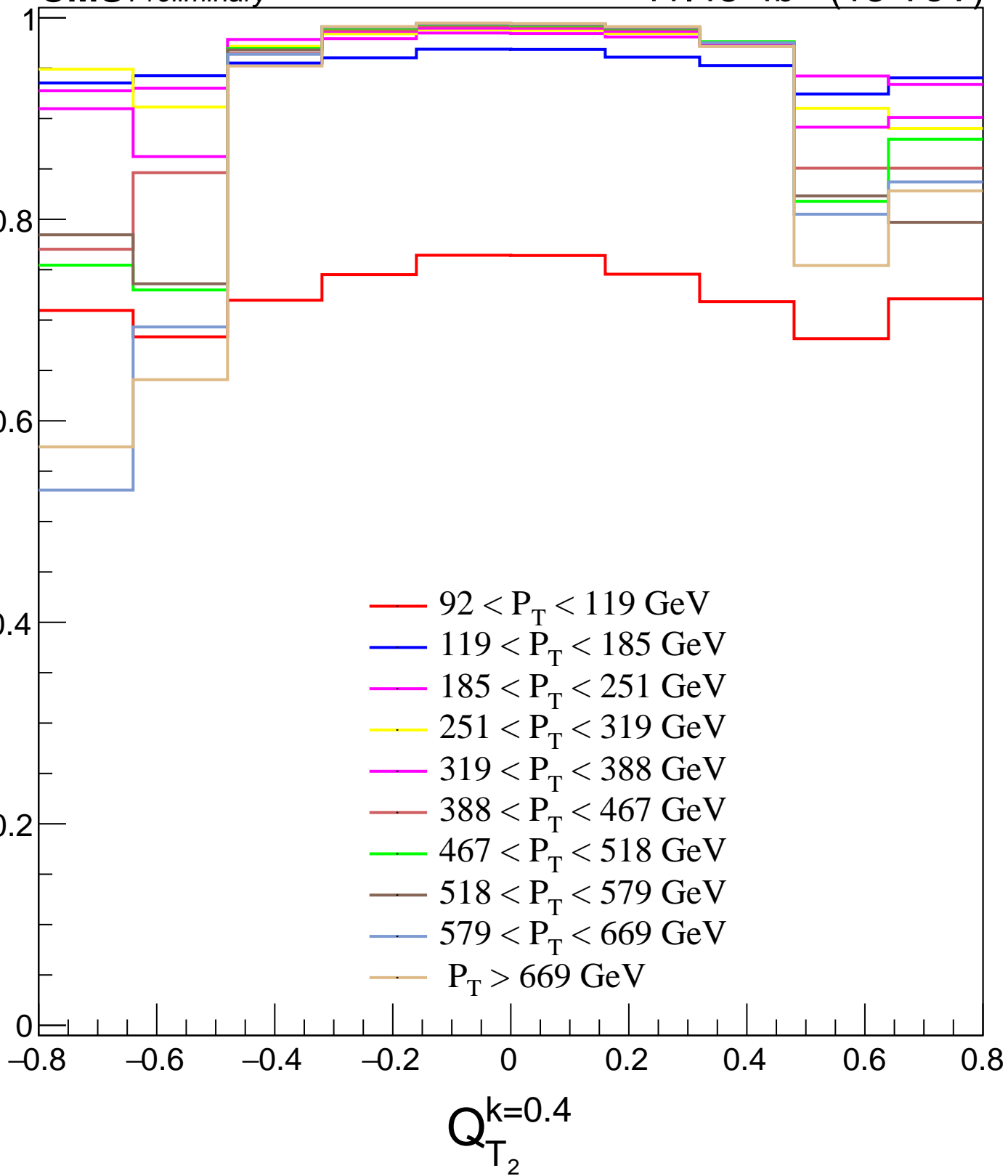


Efficiency

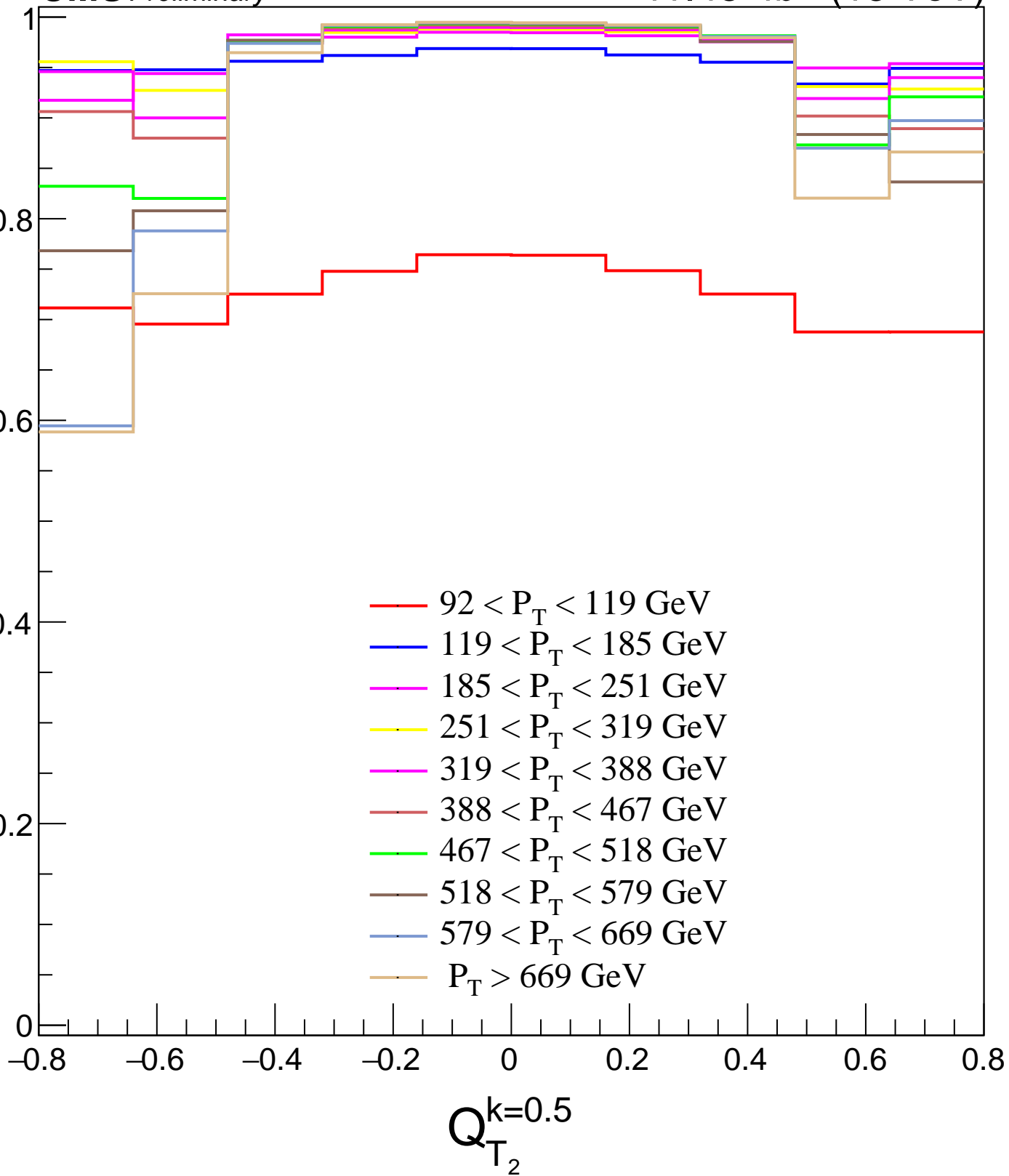




Efficiency

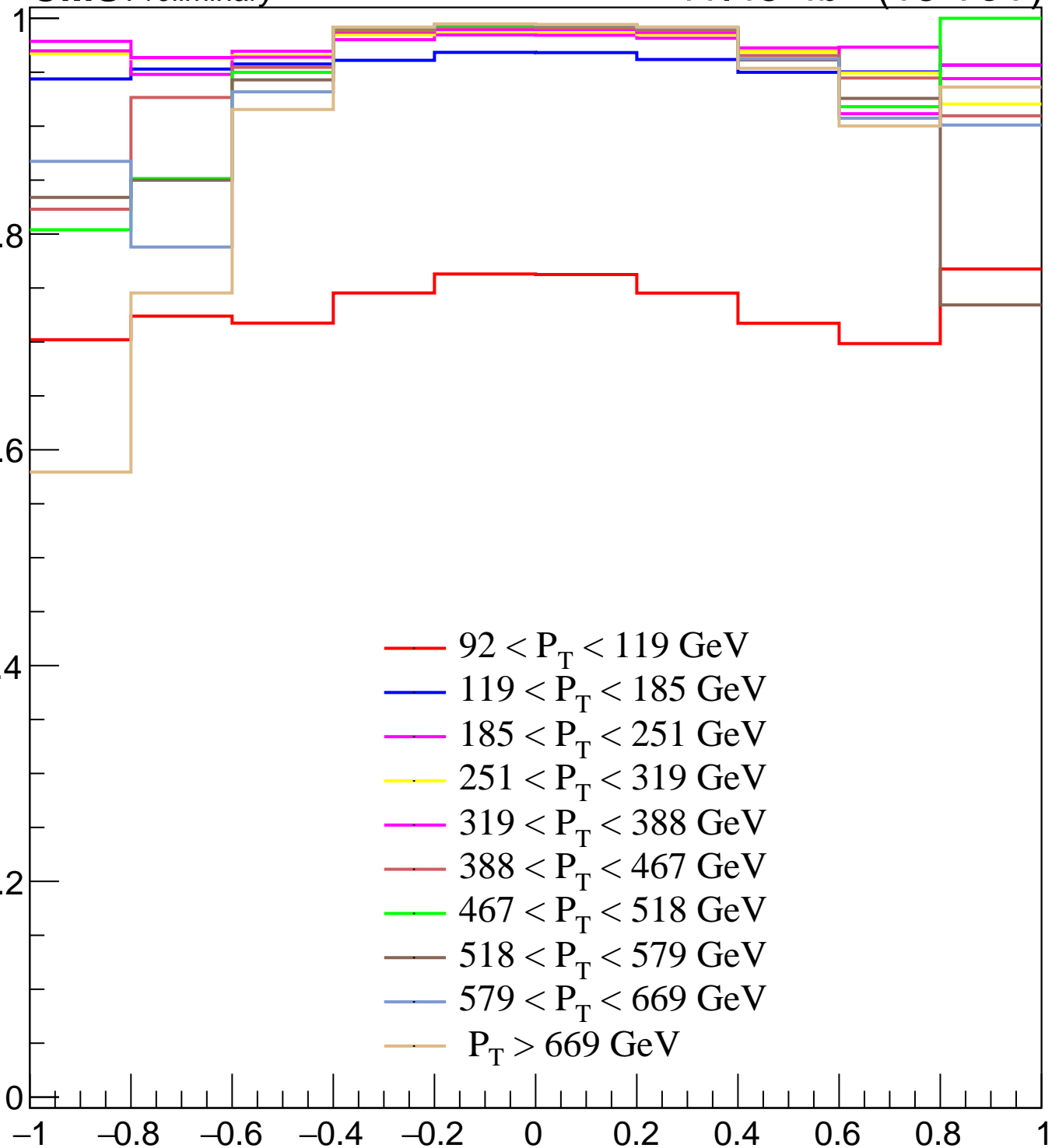


Efficiency



Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{T_2}^{k=0.6}$ 

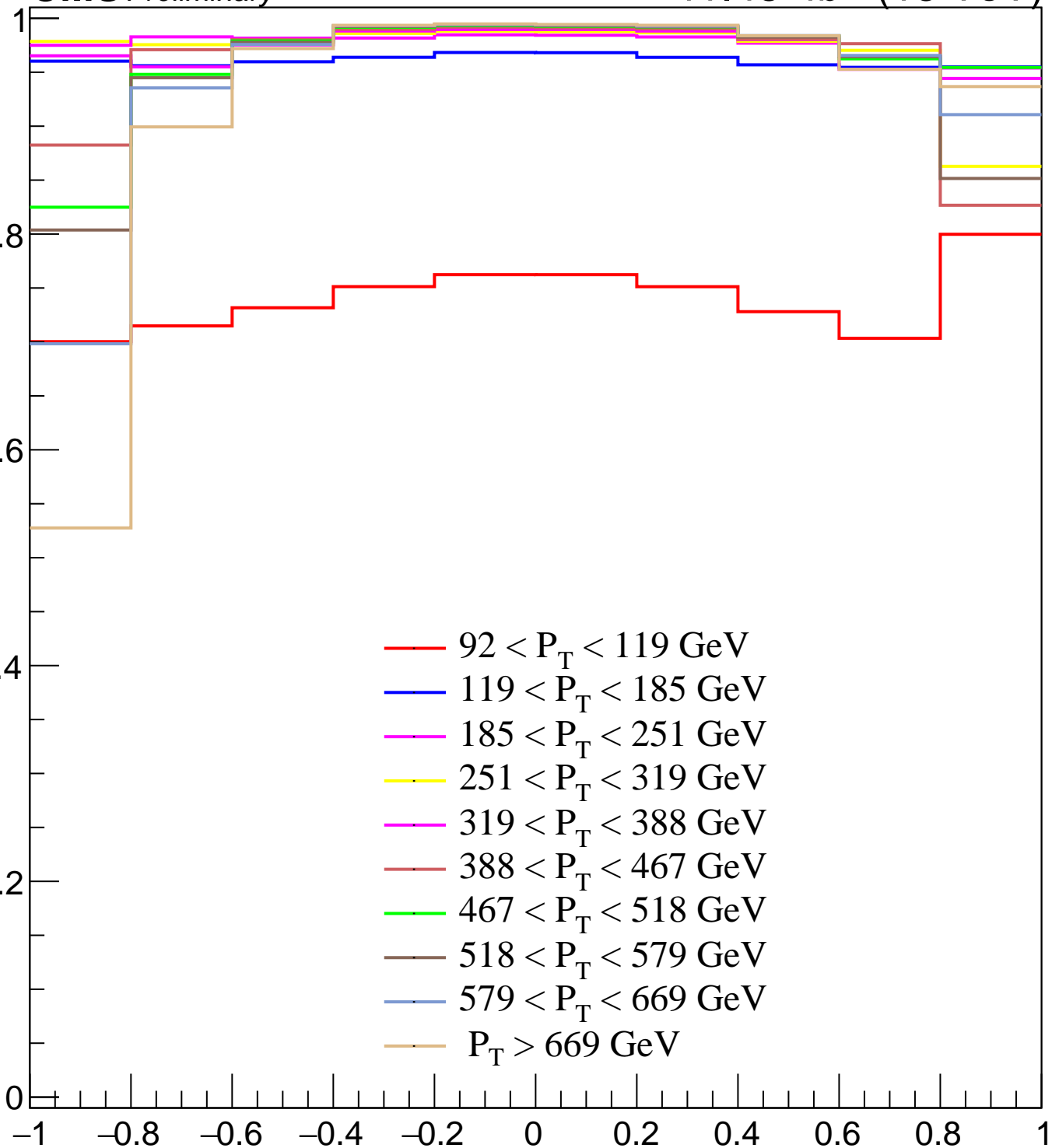
Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{T_2}^{k=0.7}$

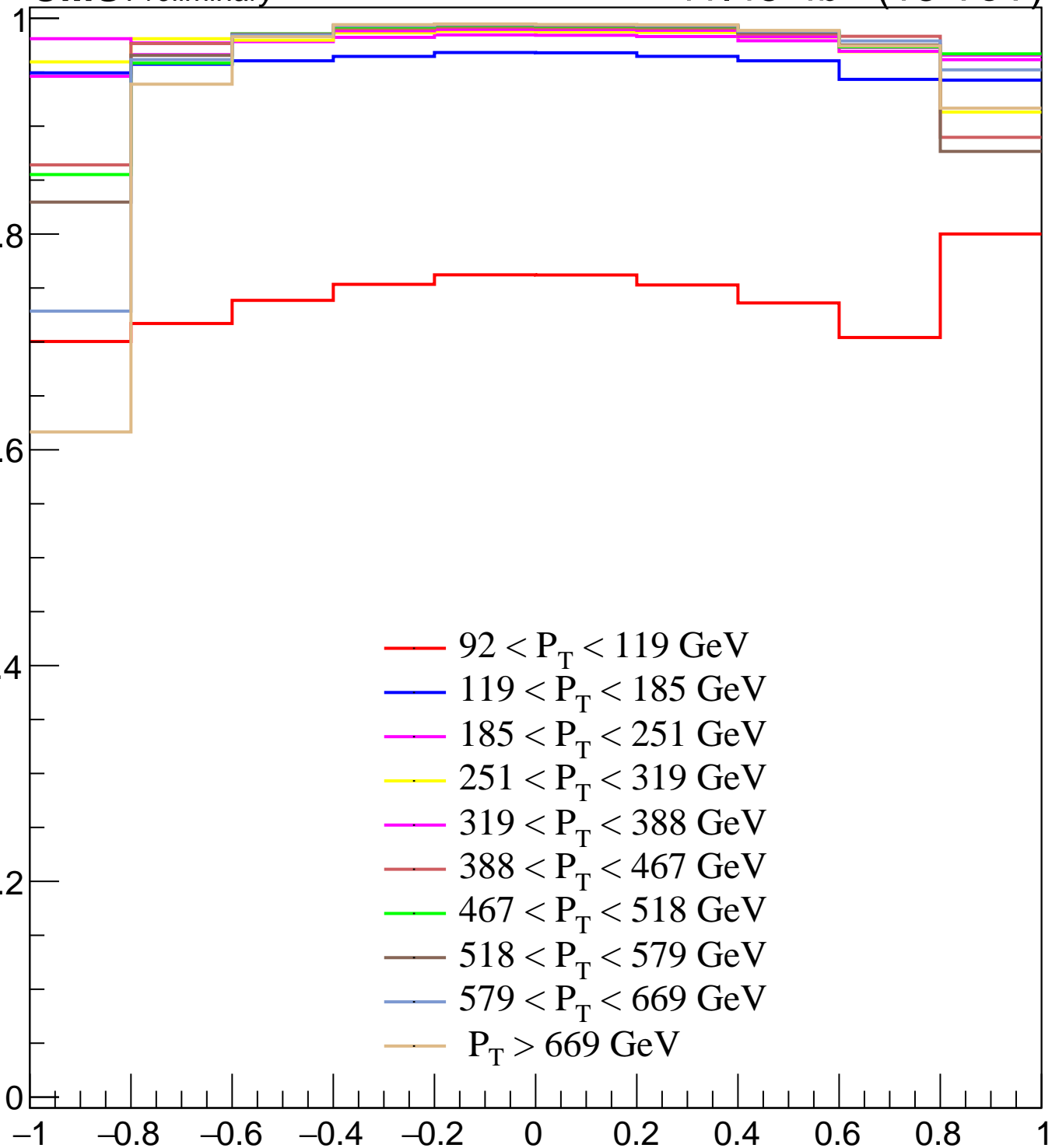
Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{T_2}^{k=0.8}$ 

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{T_2}^{k=0.9}$ 

Efficiency

- 92 < P_T < 119 GeV
- 119 < P_T < 185 GeV
- 185 < P_T < 251 GeV
- 251 < P_T < 319 GeV
- 319 < P_T < 388 GeV
- 388 < P_T < 467 GeV
- 467 < P_T < 518 GeV
- 518 < P_T < 579 GeV
- 579 < P_T < 669 GeV
- P_T > 669 GeV

 $Q_{T_2}^{k=1.0}$