



Status Report

Jinjoo Seo*
Inha University*

2021.02.05

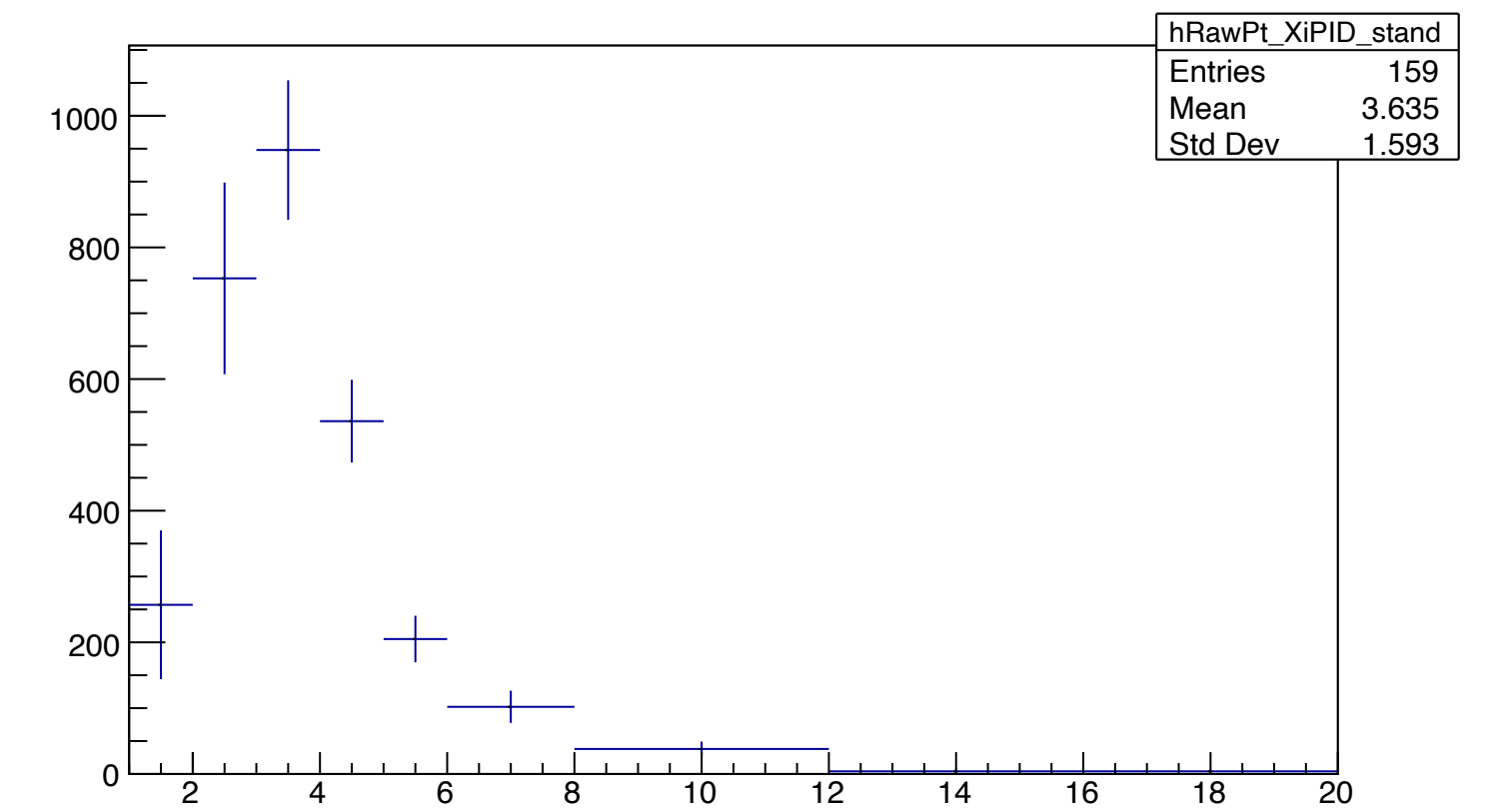
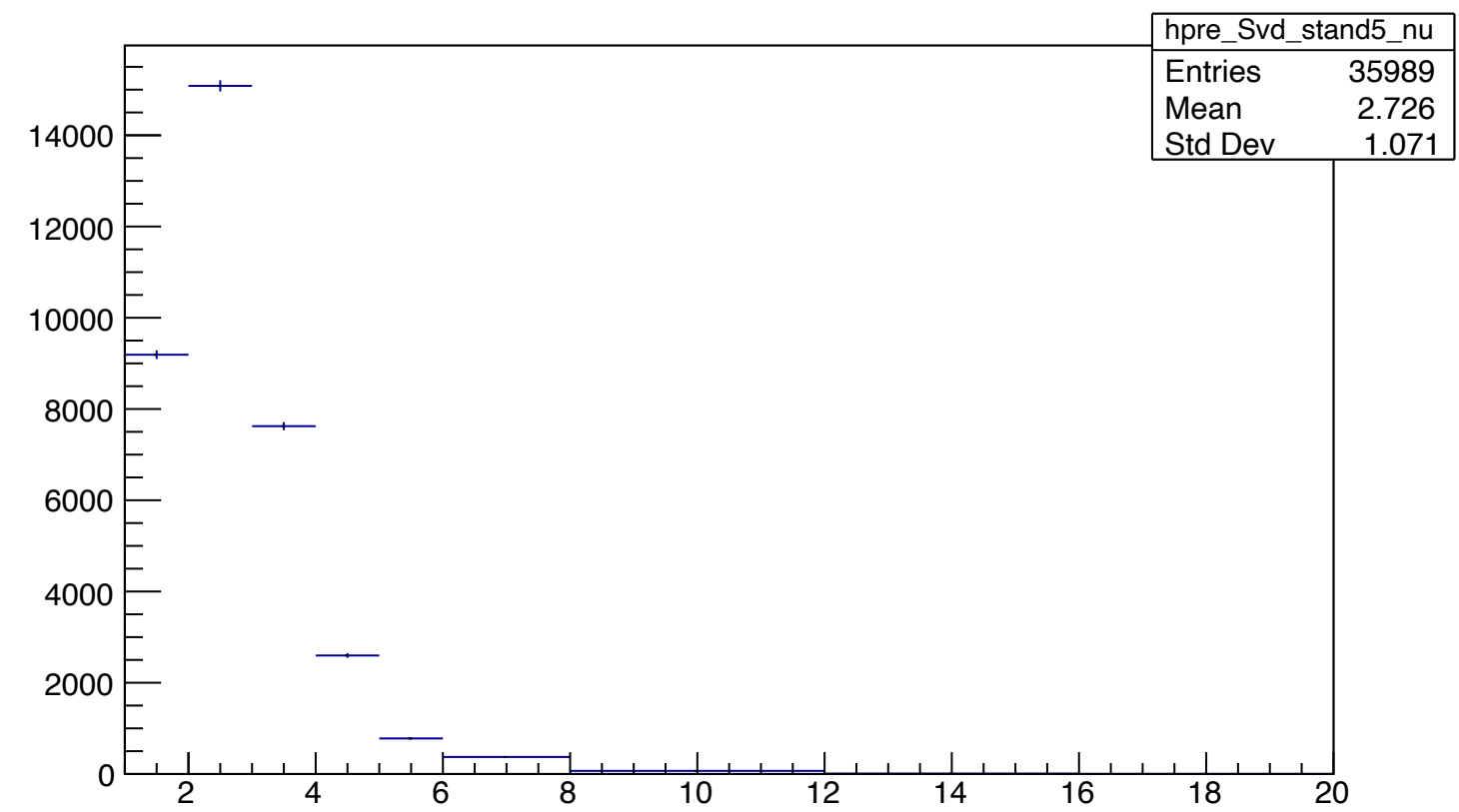
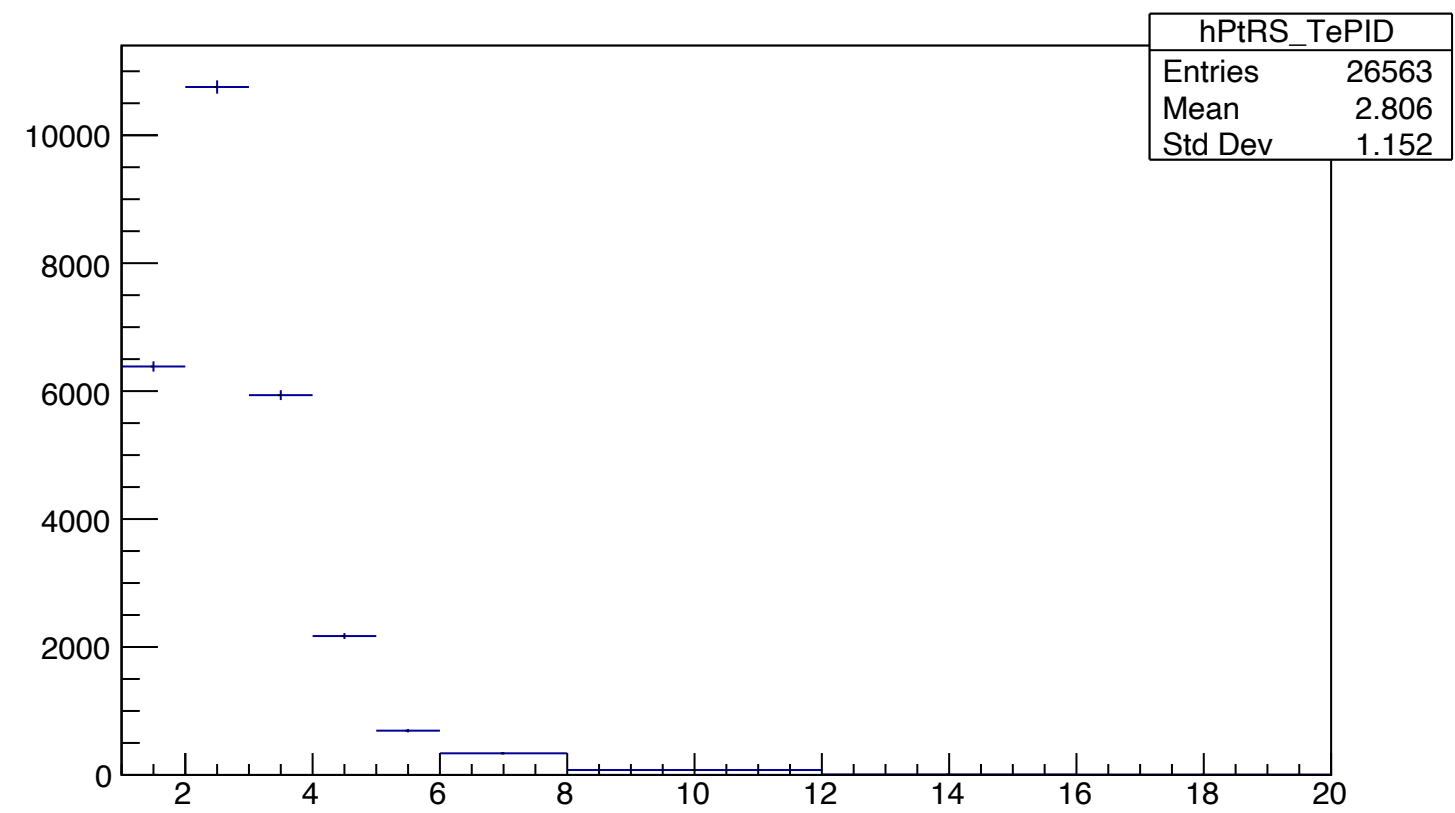
- Status

- **Cross check the Dr.Kim's macro**
 - Compare histograms randomly -> **Perfectly same**
- **Compare 'old final results with old Xi cuts' and new results**
- **Compare 'old final results with new Xi cuts' and new results**
- **Add Tree of generated Xic information for weighting**
 - Ready to submit the Lego train

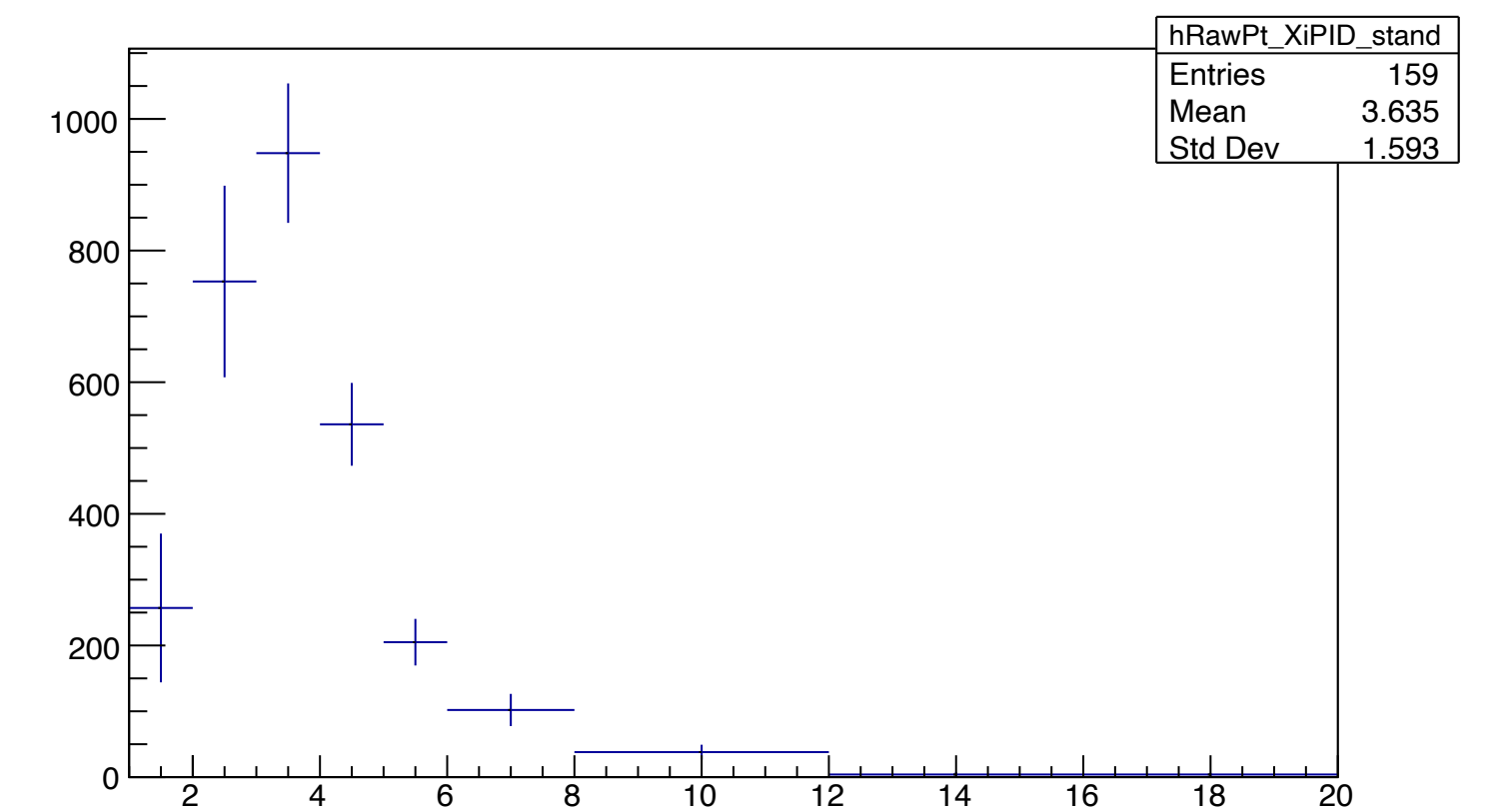
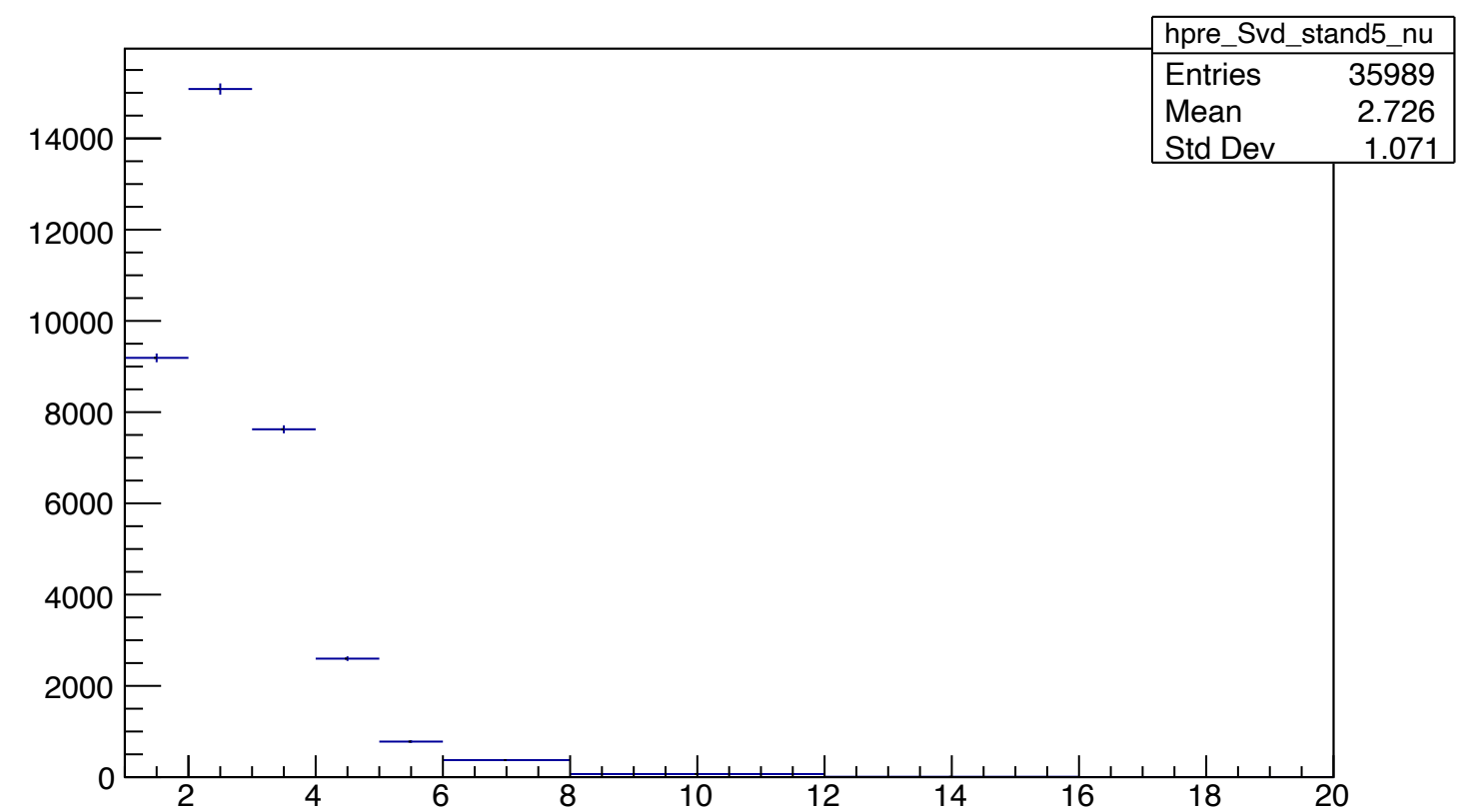
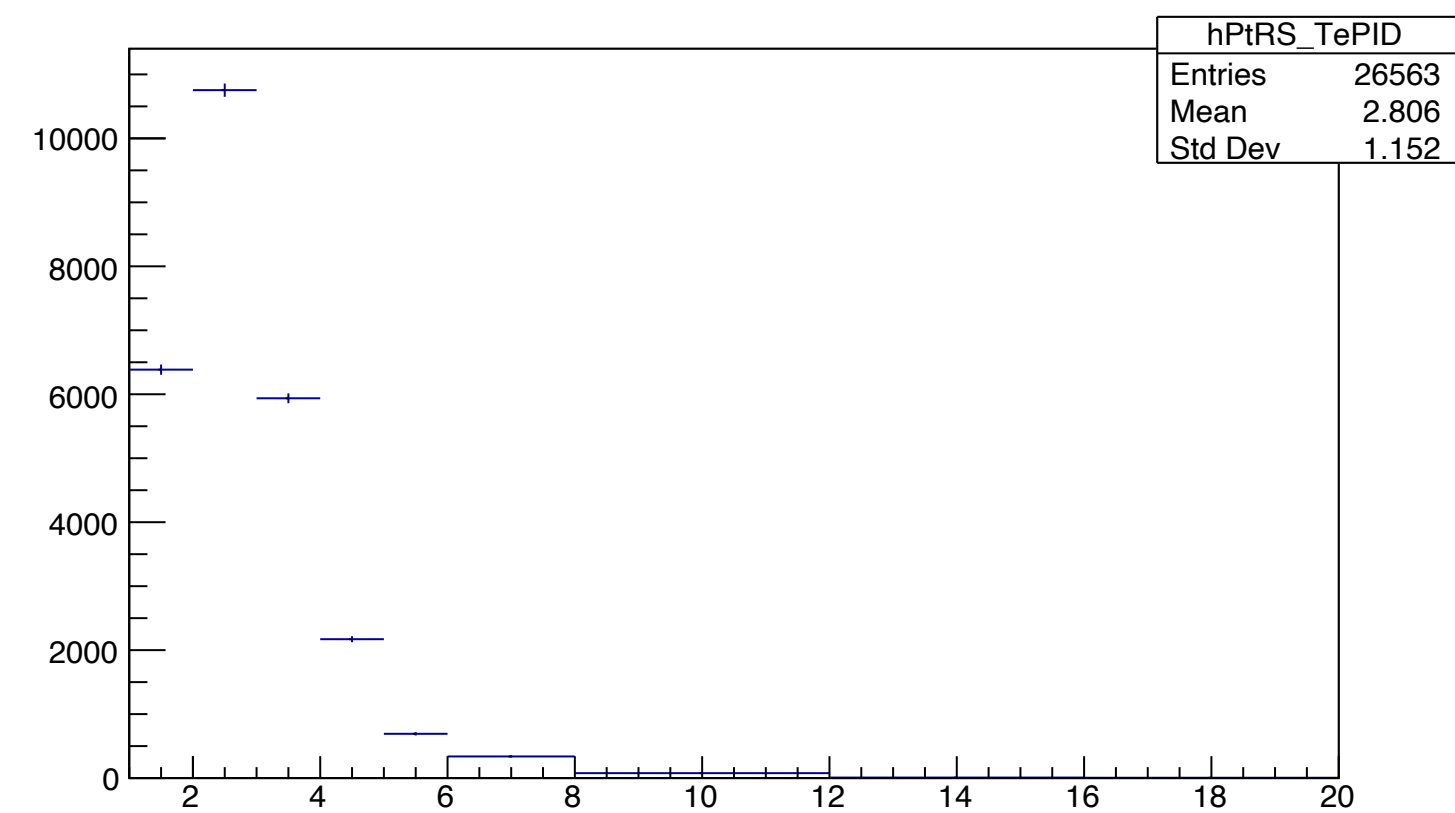
- Cross check the Dr.Kim's macro

- Compare macros which make analysis histograms with mine and Dr.Kim's
- Data : AOD208 -> received in May 2020.
- Comment out the event triggering part in Dr.Kim's macro

Jinjoo

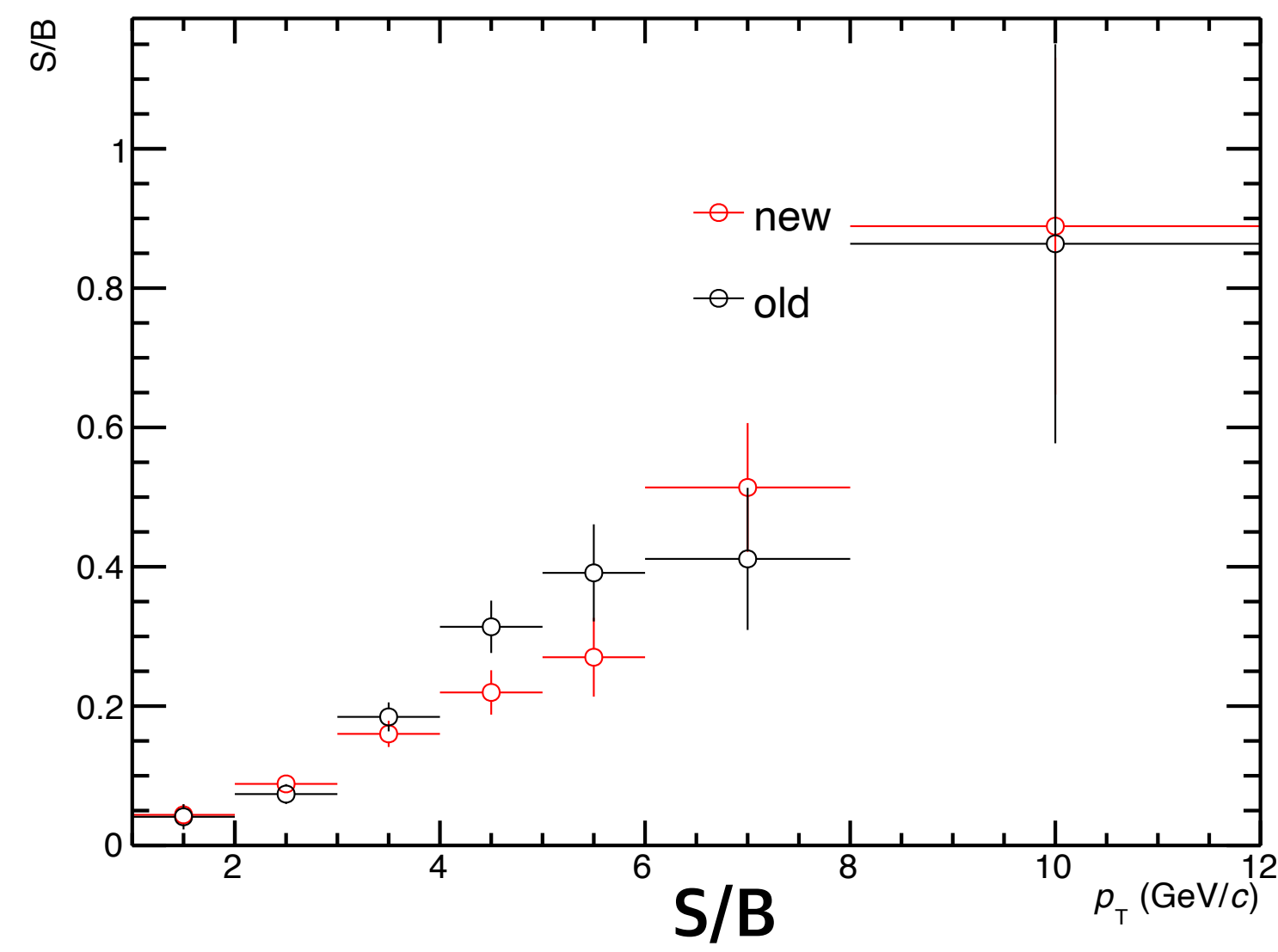
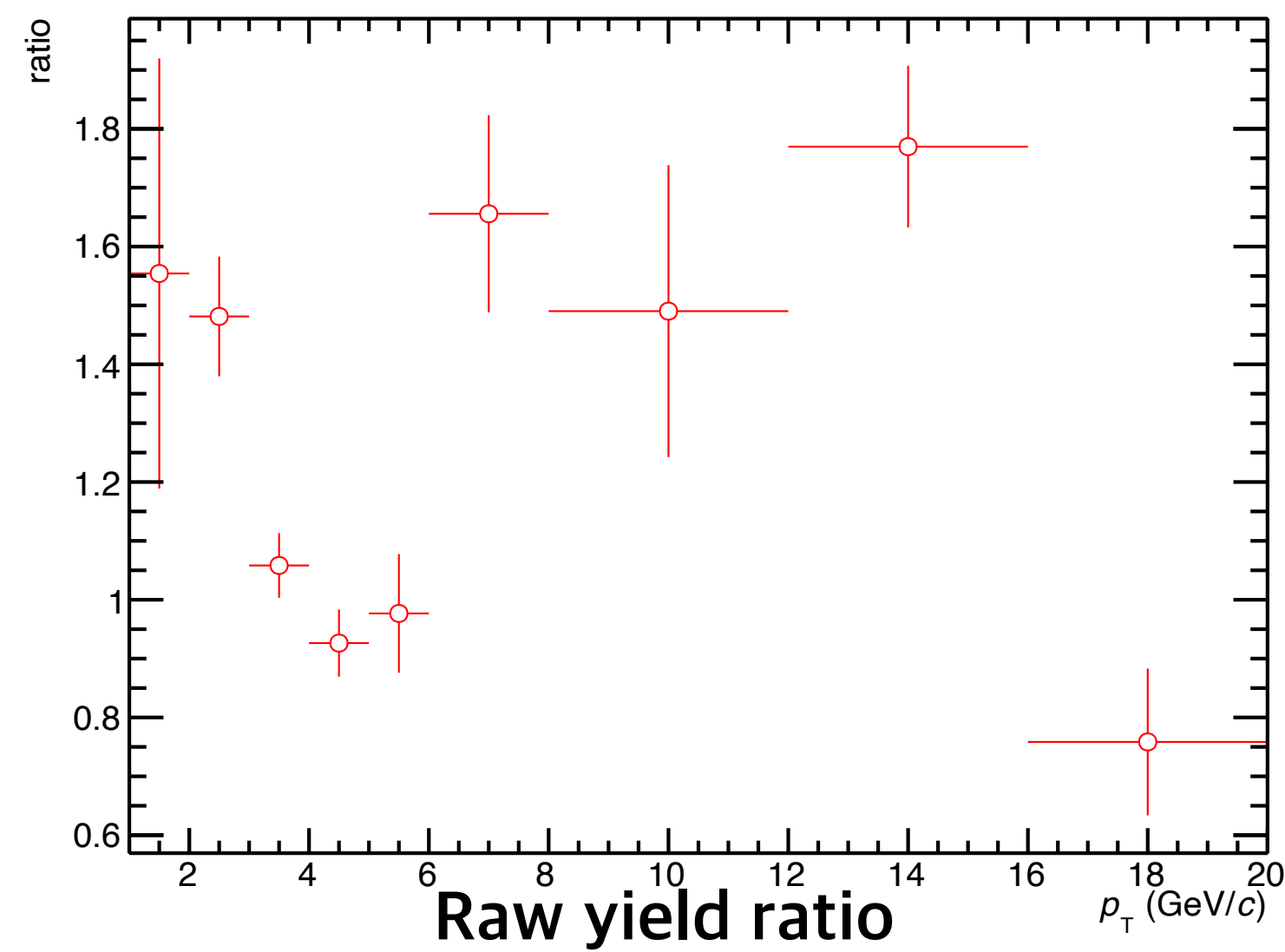
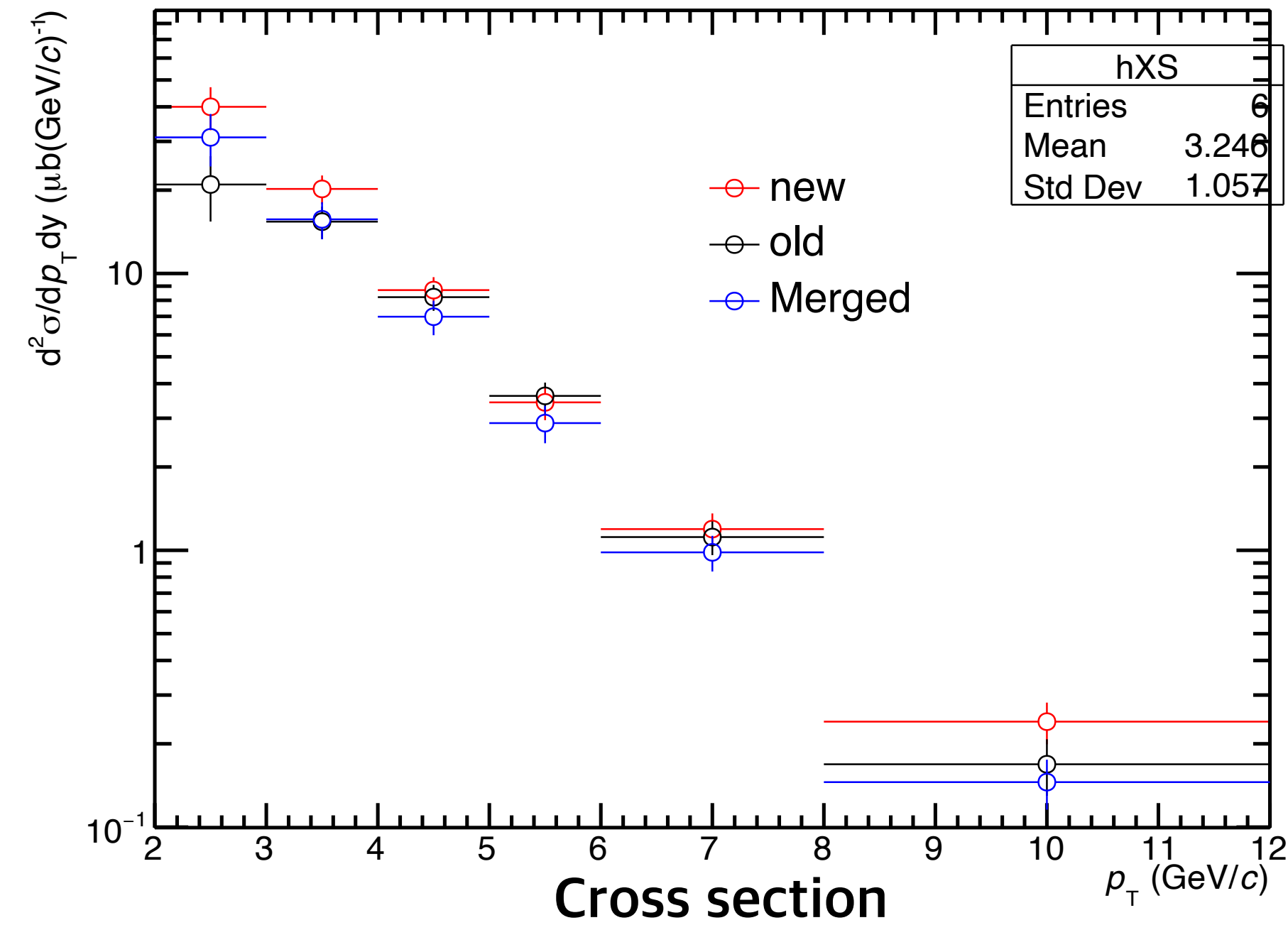
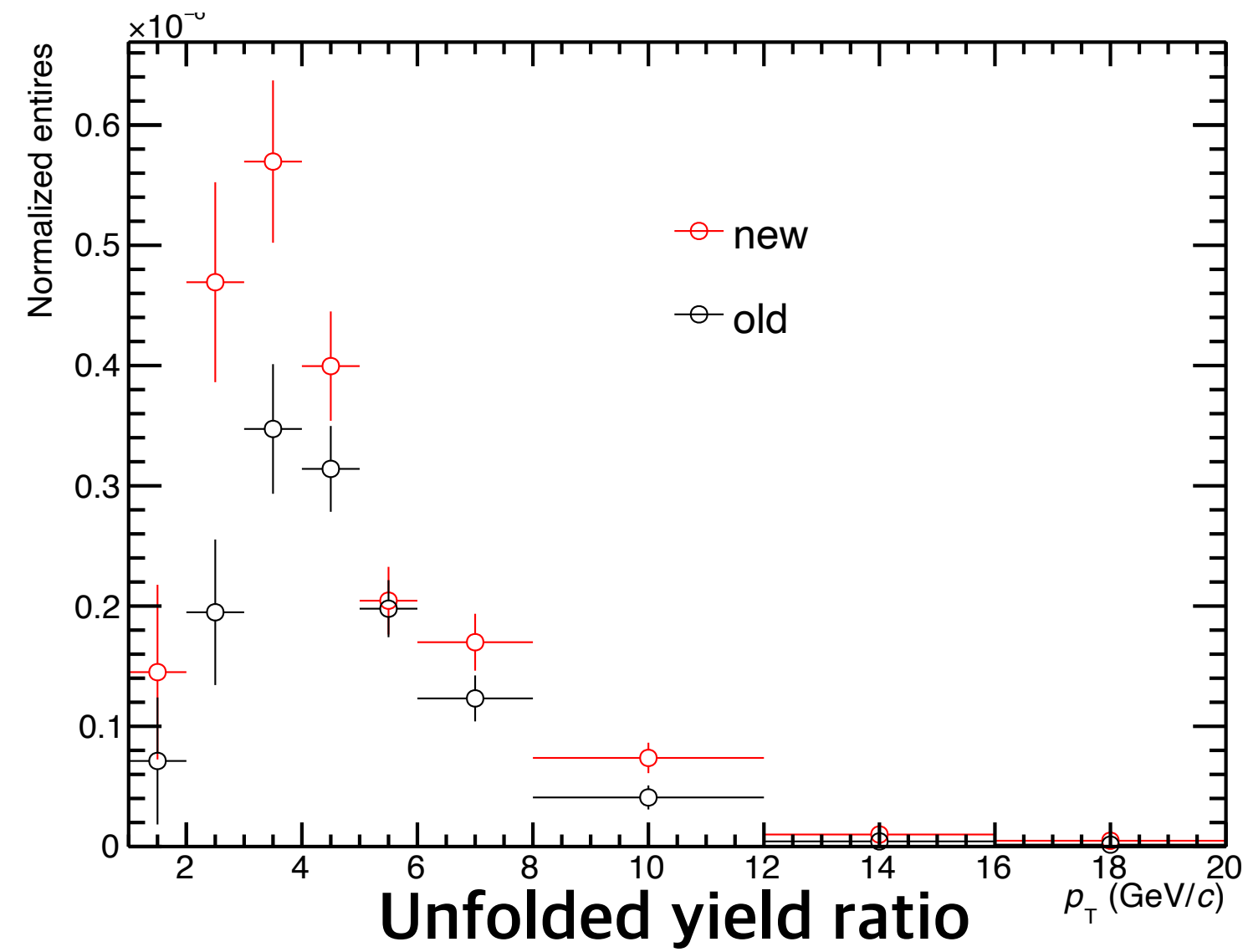
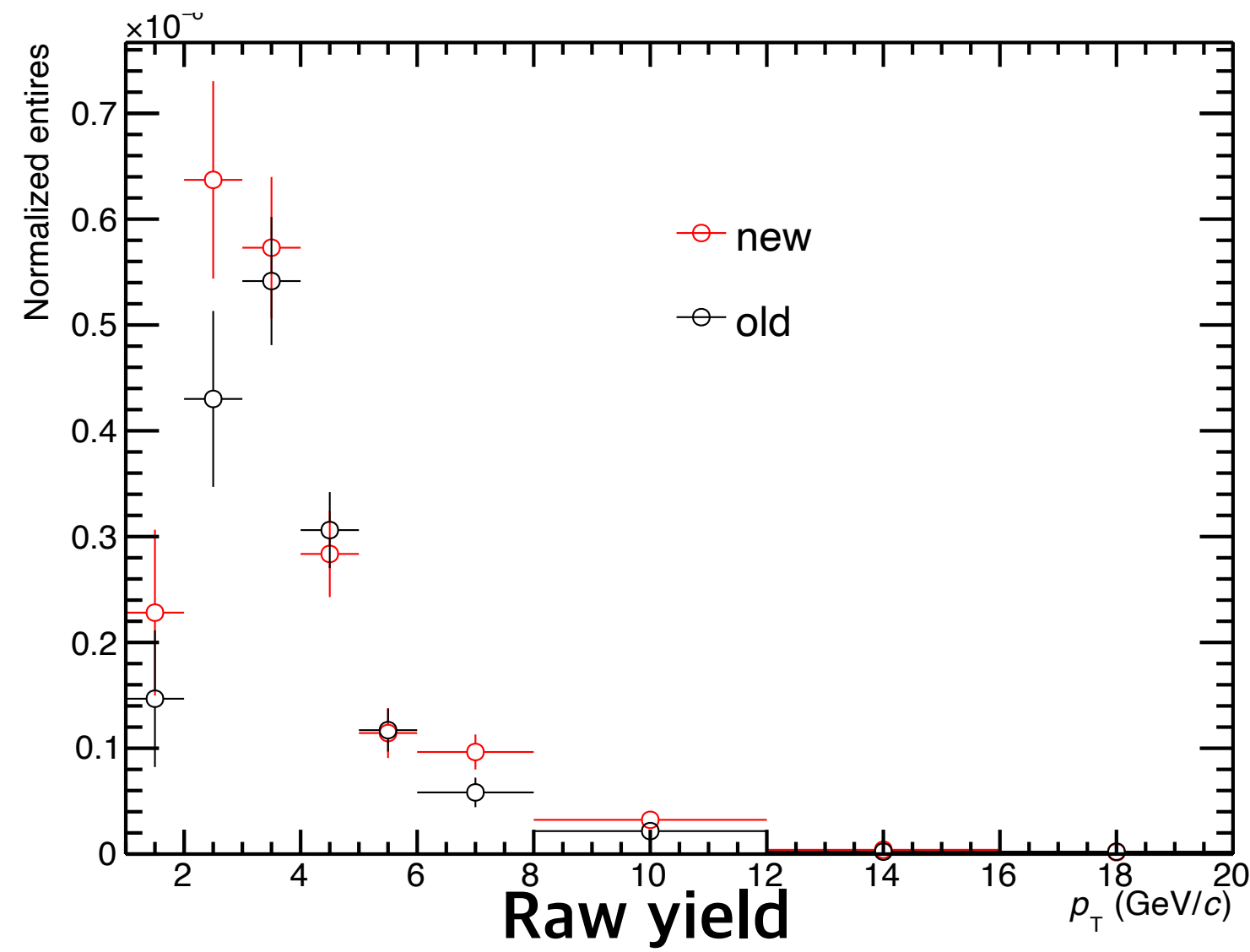


Dr.Kim



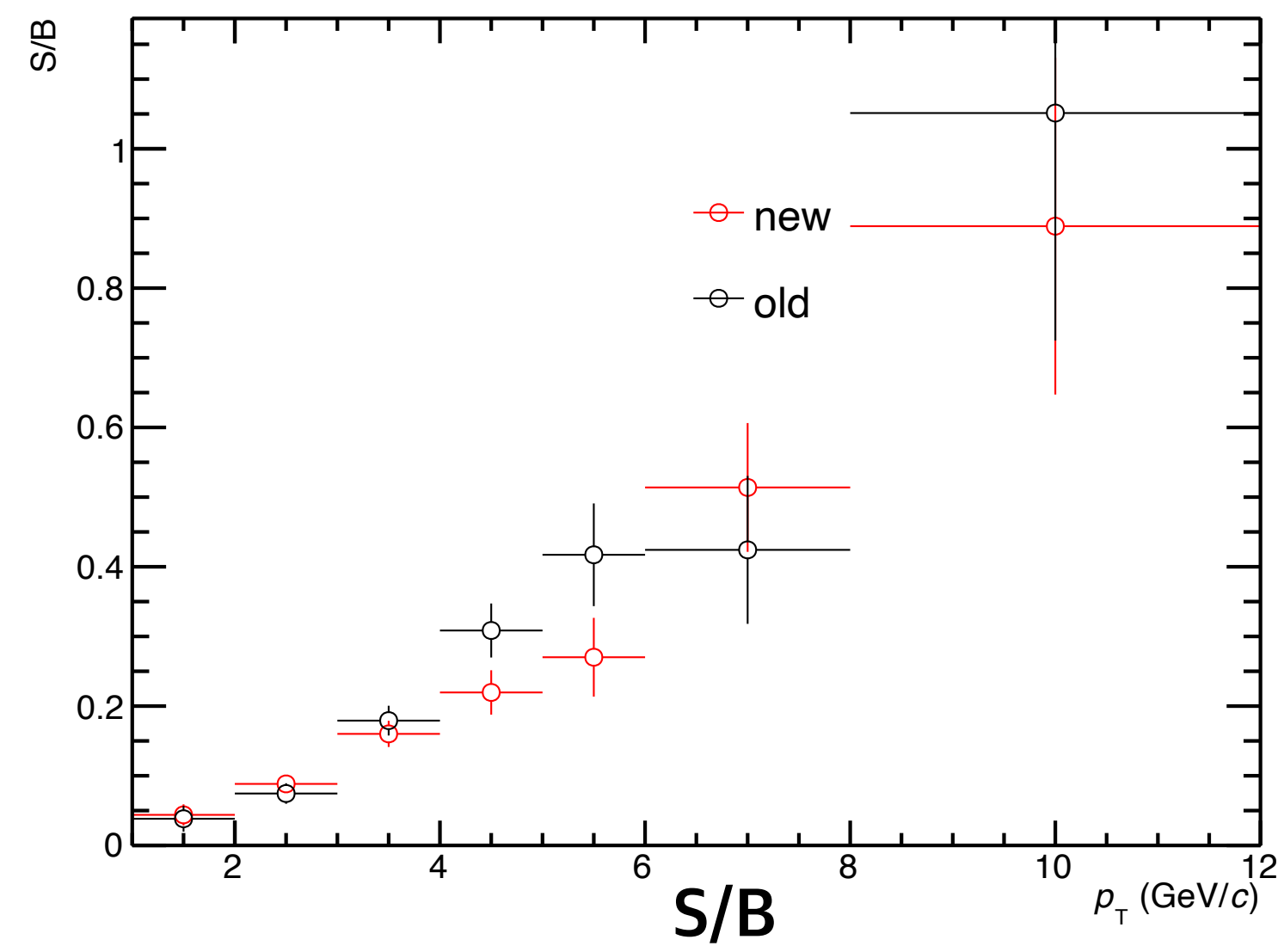
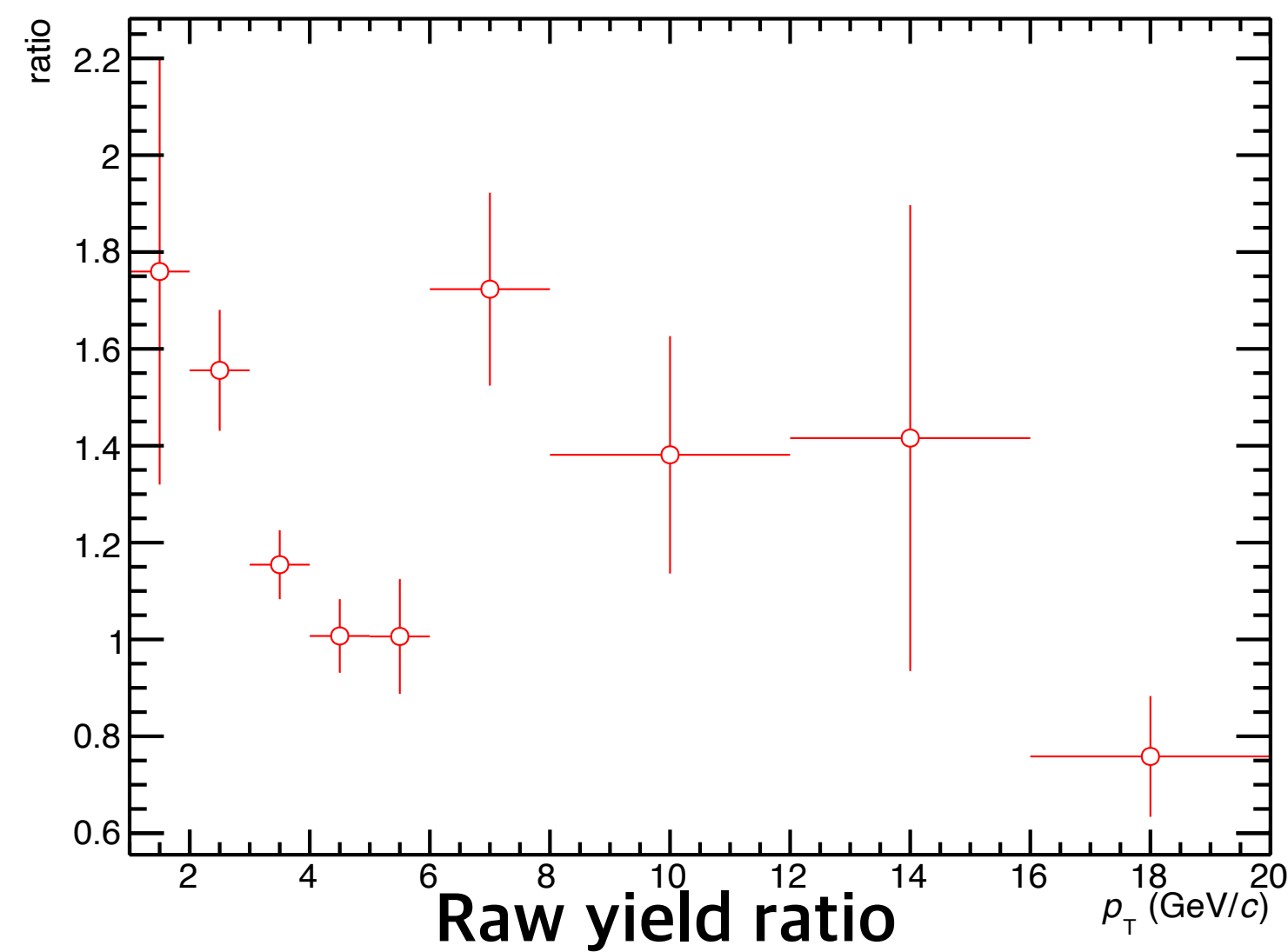
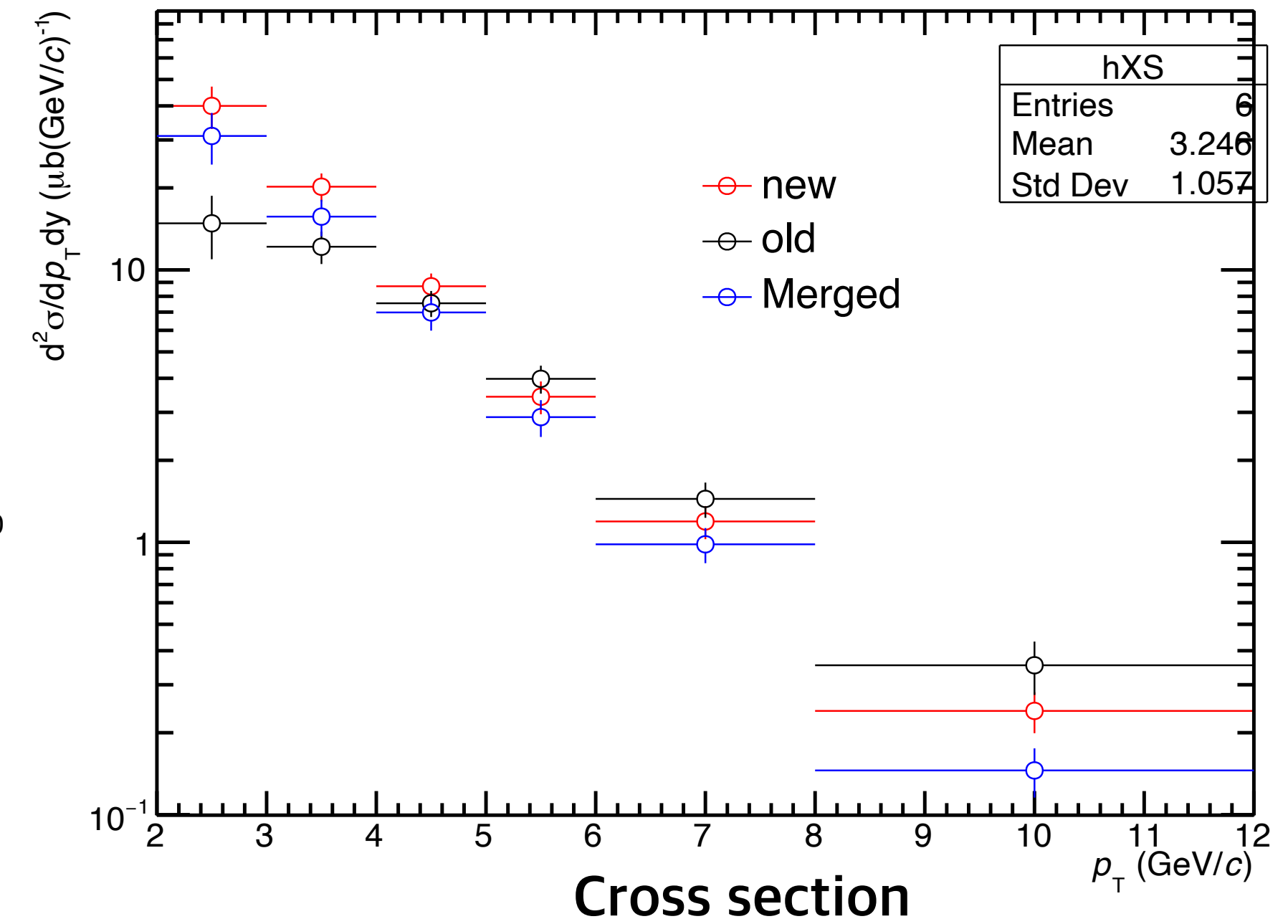
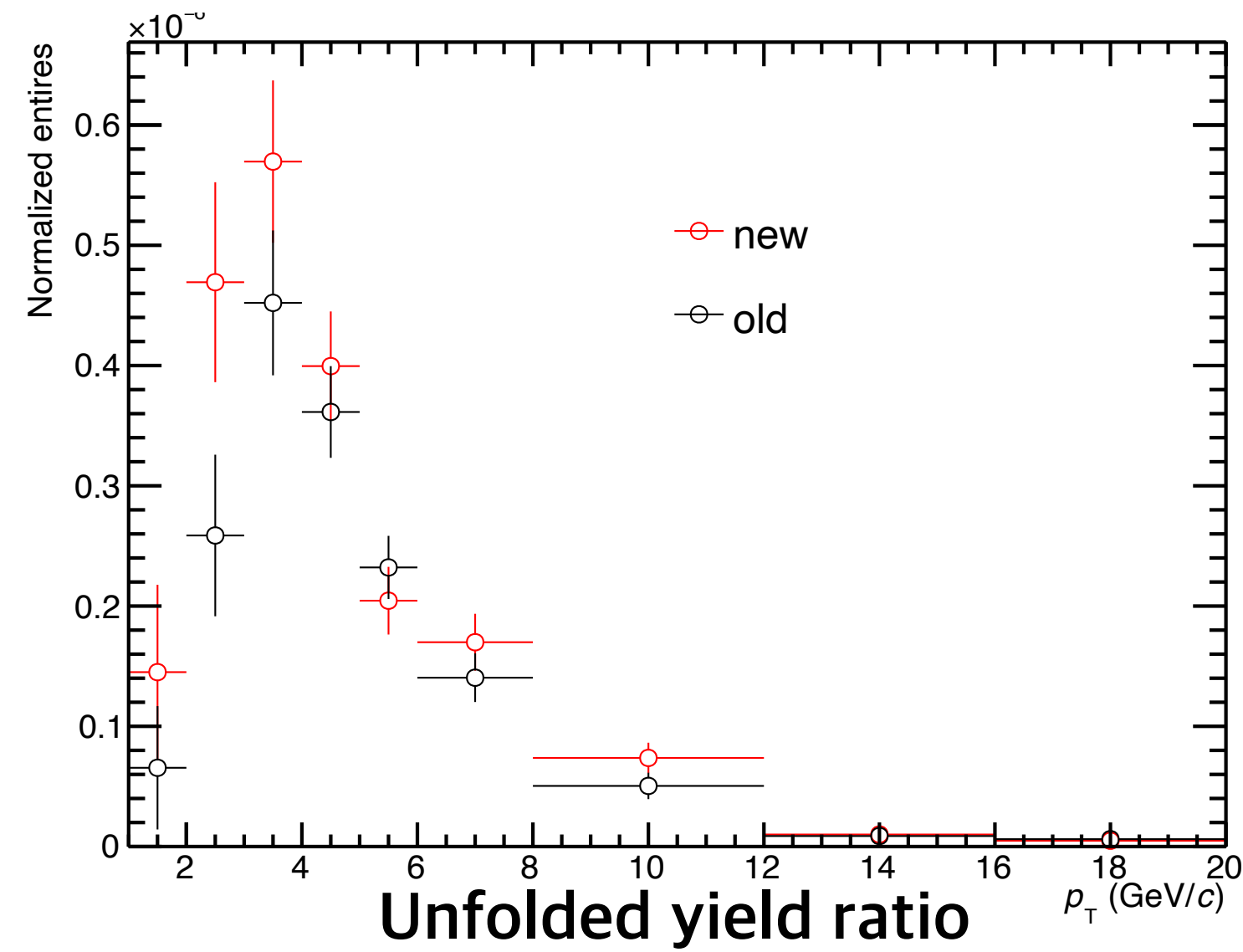
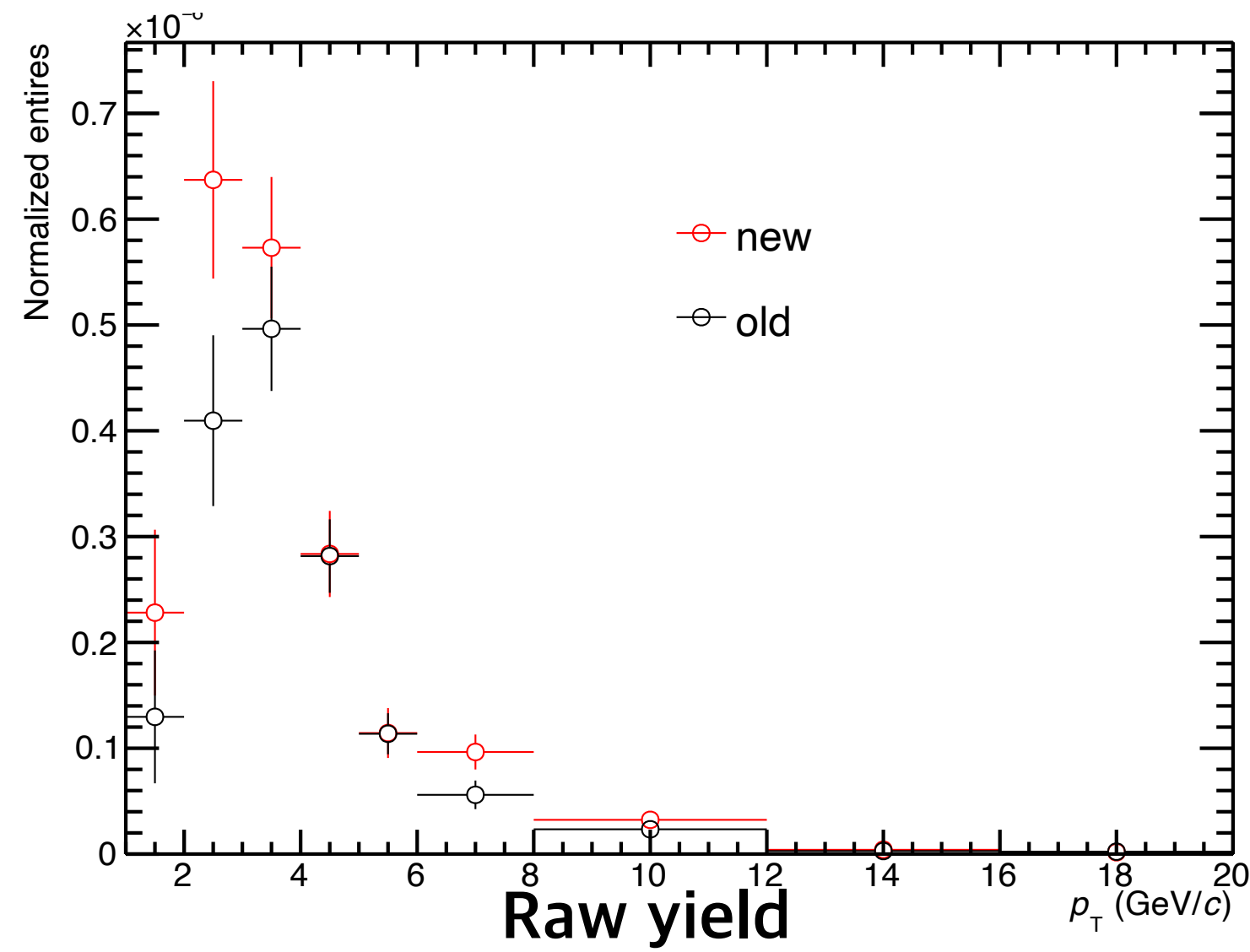
Status

- Compare 'old final results with old Xi cuts' and **new results**



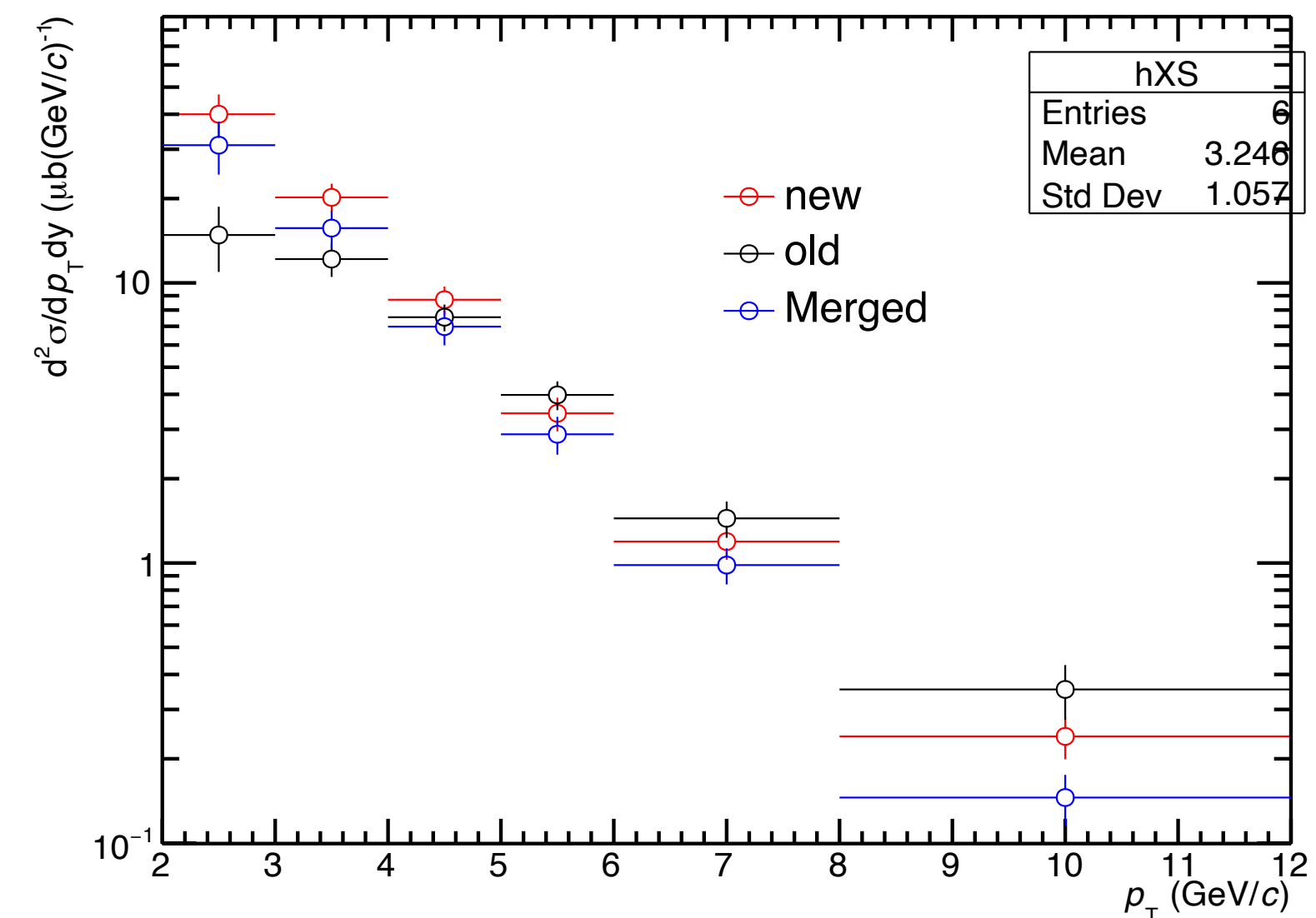
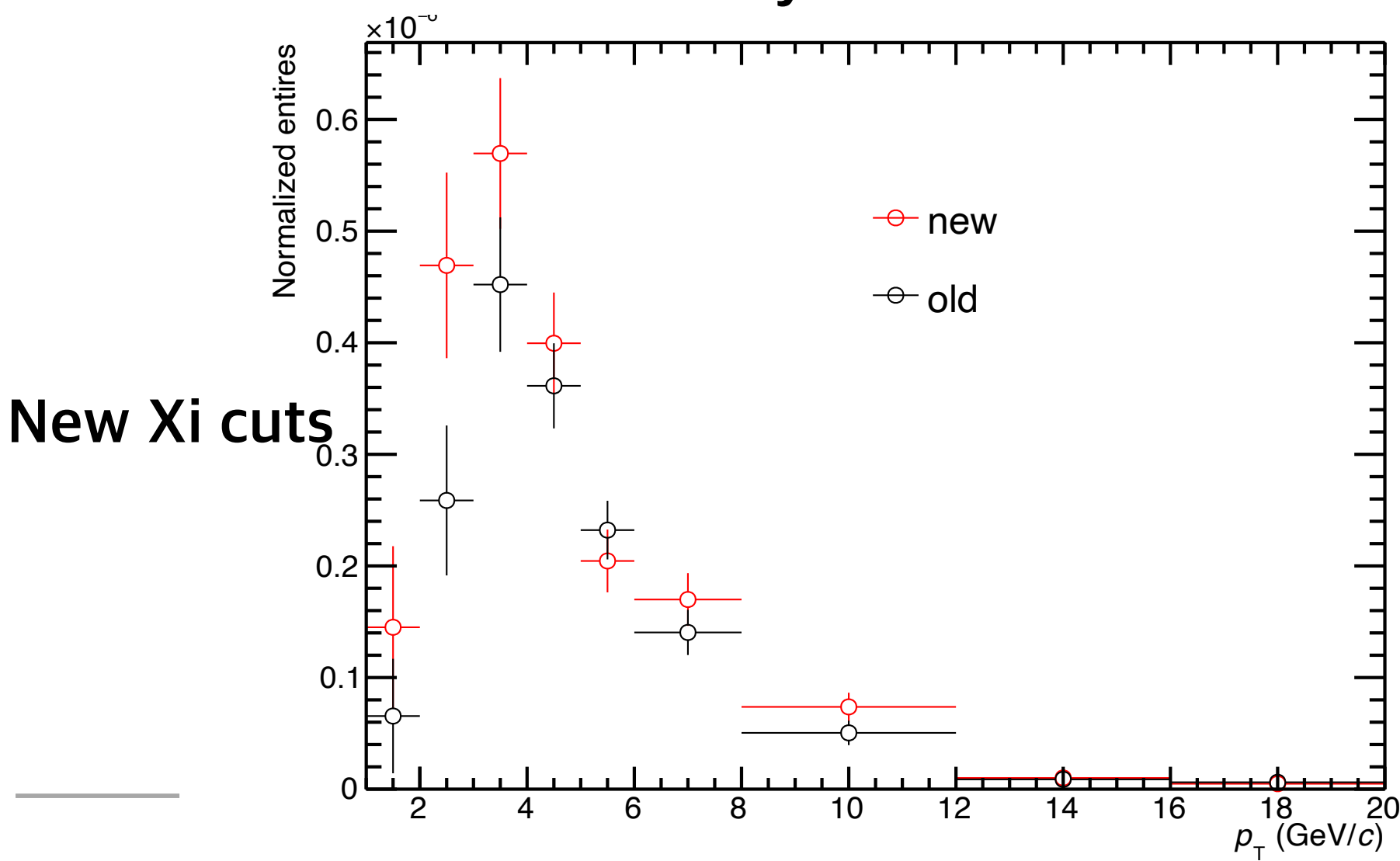
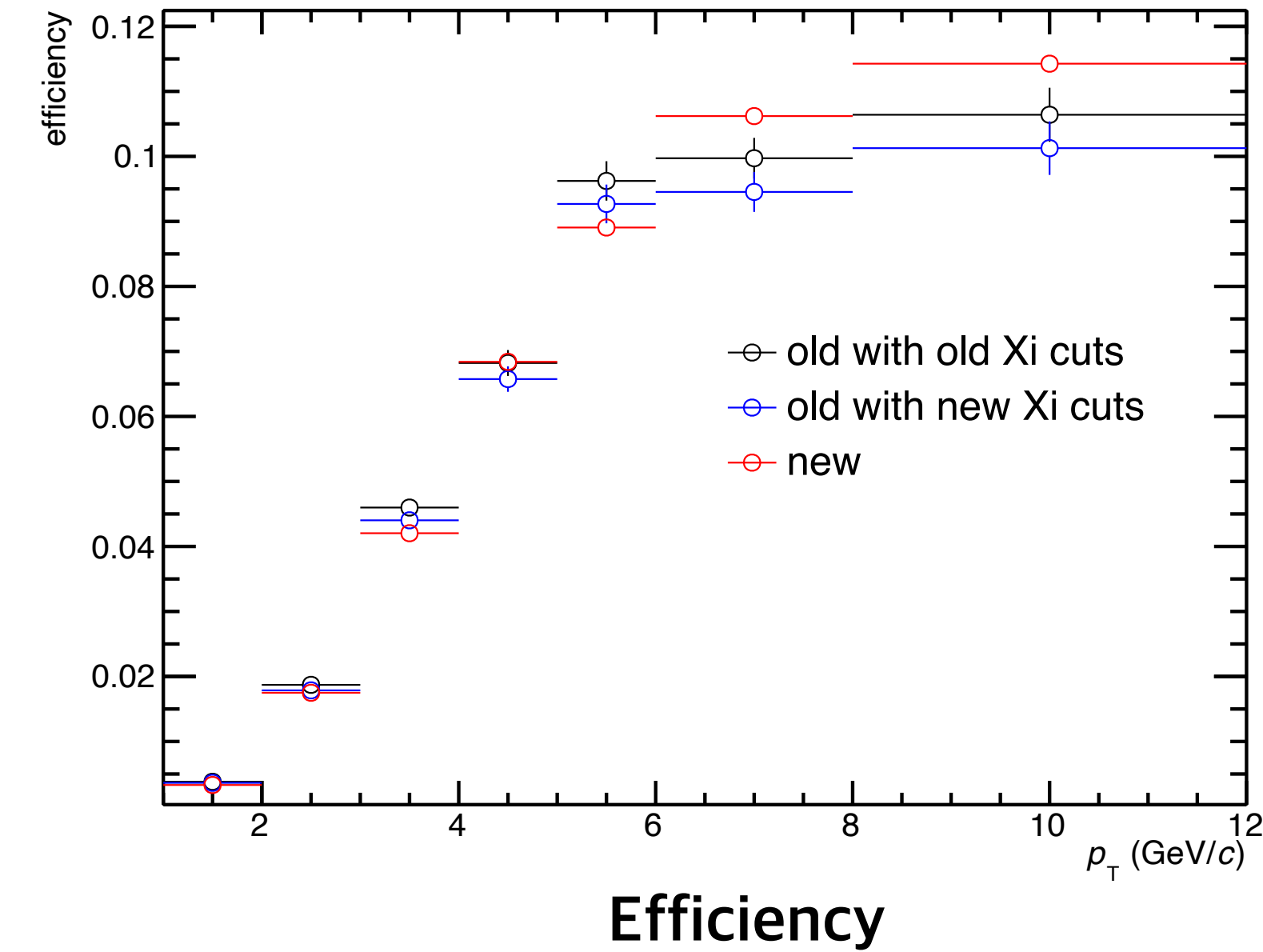
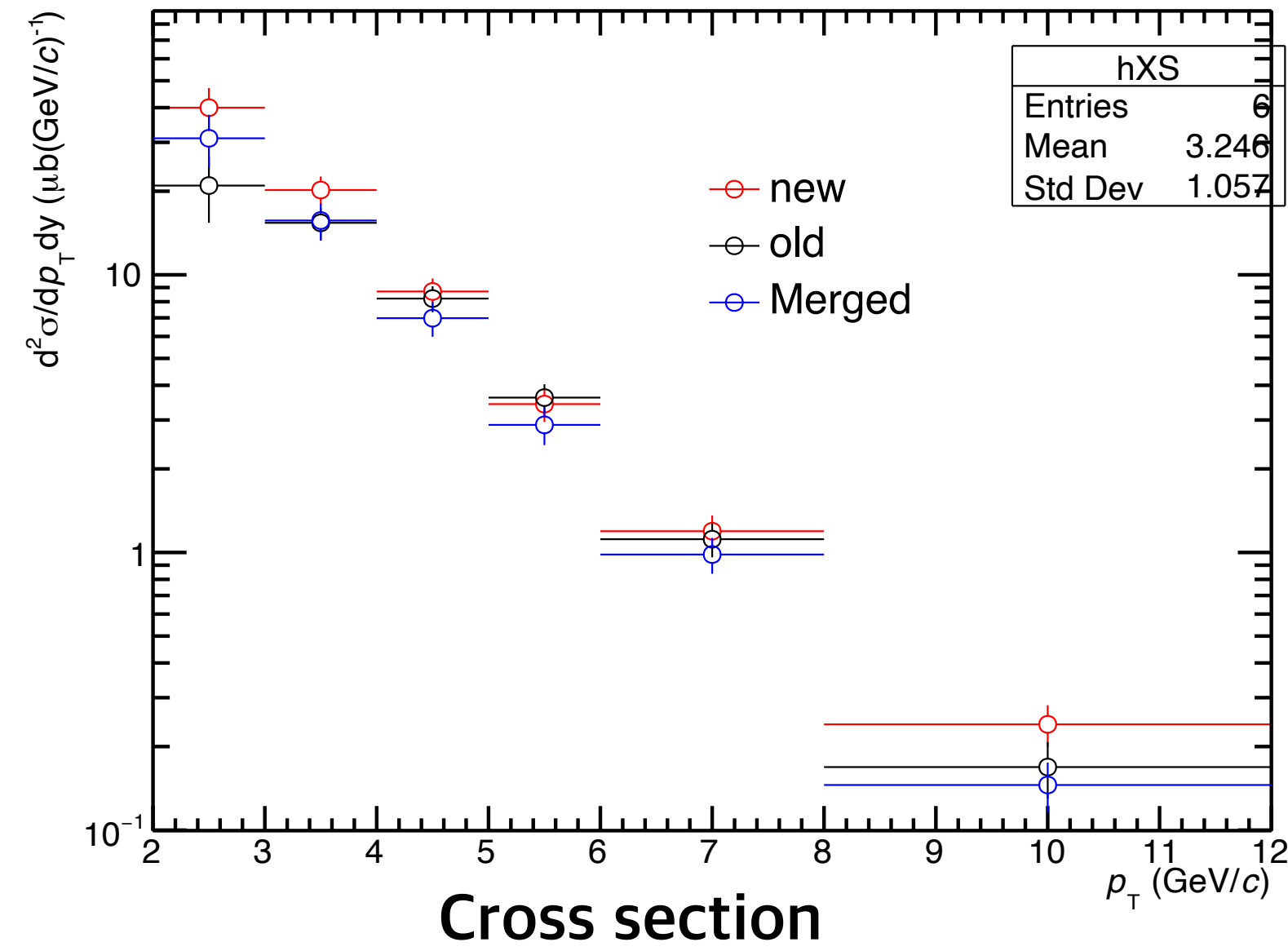
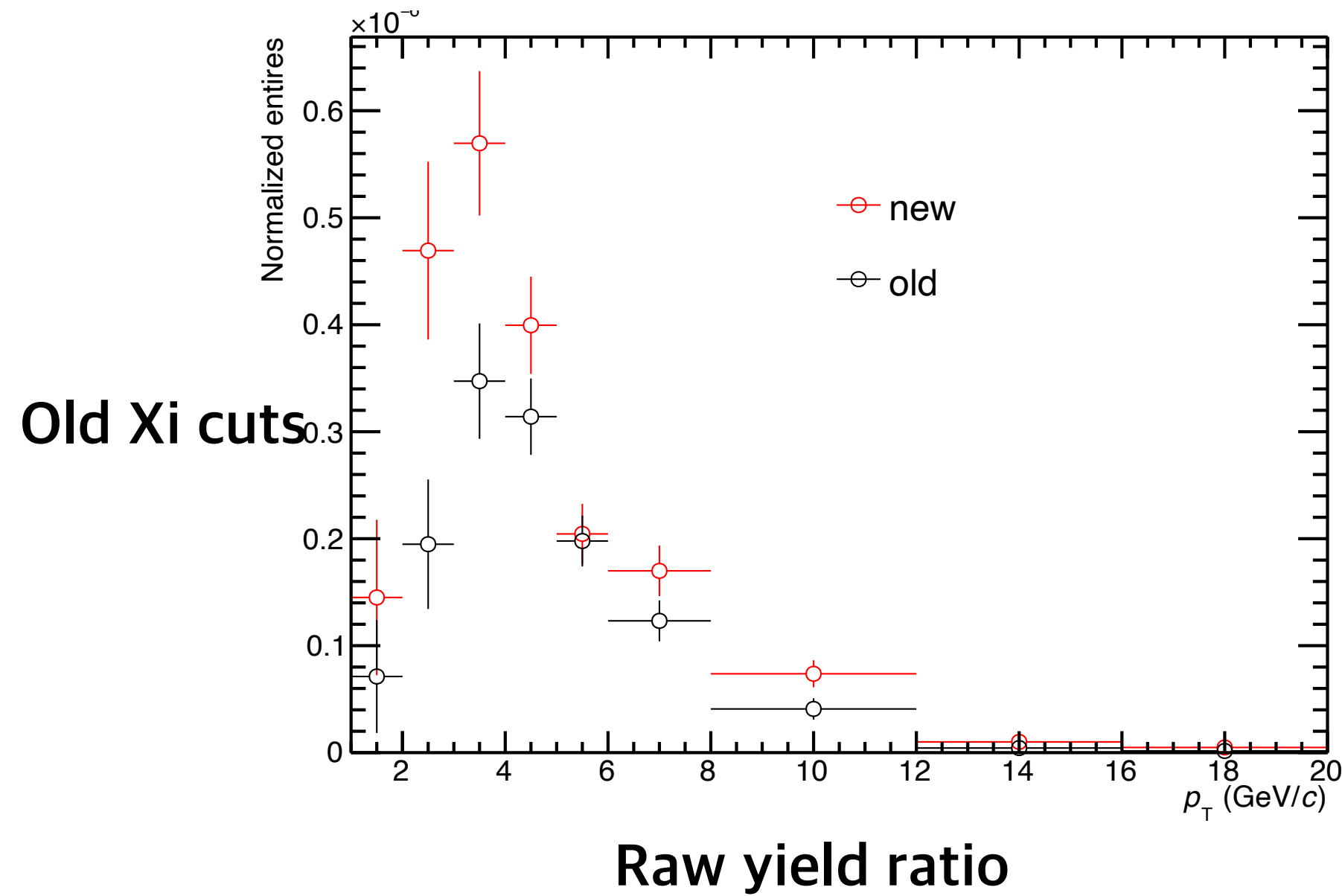
Status

- Compare 'old final results with old Xi cuts' and **new results**



Status

- Compare 'old final results with new Xi cuts' and **new results**



Back up

Status

- Status

Default

Cut variables	VeryLoose	Loose	Standard	Tight	VertTight
Λ Mass tolerance (MeV/c^2)	7.5	7.5	7.5	7.5	7.5
Ξ Mass tolerance (MeV/c^2)	8	8	8	8	8
DCA of V0 to PV (cm)	>0.01	>0.02	>0.03	>0.04	>0.06
DCA of V0 daughters to PV (cm)	>0.05	>0.061	>0.073	>0.088	>0.102
V0 cosine of pointing angle to Ξ vertex	>0.98	>0.981	>0.983	>0.9839	>0.985
DCA of bachelor track to PV (cm)	>0.01	>0.0146	>0.0204	>0.0275	>0.037
V0 decay length (cm)	>0.20	>1.55	>2.67	>3.6	>4.39
Ξ decay length (cm)	>0.20	>0.29	>0.38	>0.53	>0.72

New

Cut variables	VeryLoose	Loose	Standard	Tight	VertTight
Λ Mass tolerance (MeV/c^2)	7.5	7.5	7.5	7.5	7.5
Ξ Mass tolerance (MeV/c^2)	8	8	8	8	8
DCA of V0 to PV (cm)	>0.05	>0.05	>0.05	>0.1	>0.15
DCA of V0 daughters to PV (cm)	>0.05	>0.061	>0.073	>0.088	>0.102
V0 cosine of pointing angle to Ξ vertex	>0.98	>0.981	>0.983	>0.9839	>0.985
DCA of bachelor track to PV (cm)	>0.05	>0.05	>0.05	>0.05	>0.1
V0 decay length (cm)	>1.1	>1.55	>2.67	>3.6	>4.39
Ξ decay length (cm)	>0.5	>0.5	>0.5	>0.53	>0.72