Kinematics Check

Nathaly

Check the Target Variables in each Run
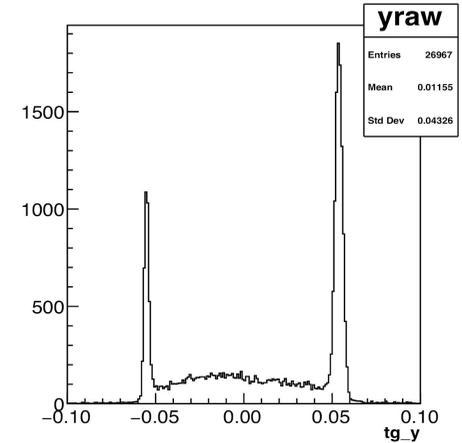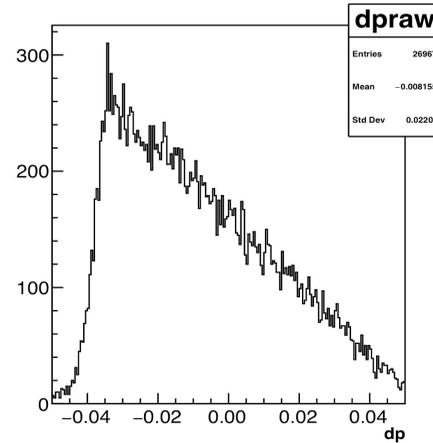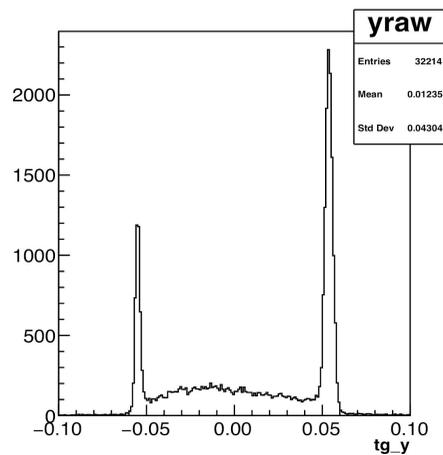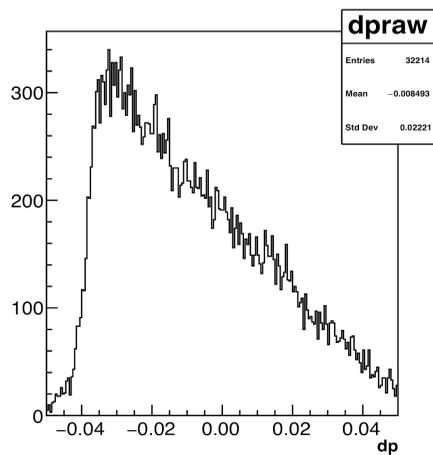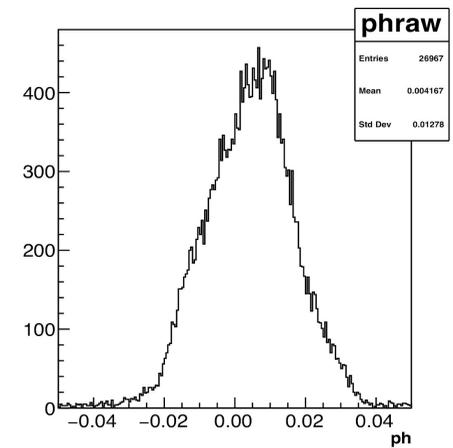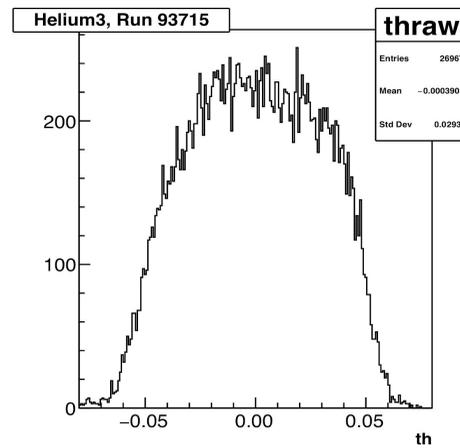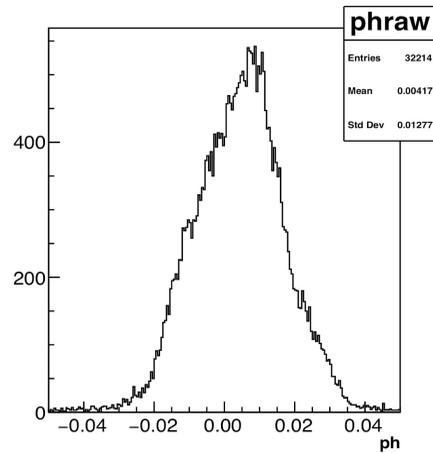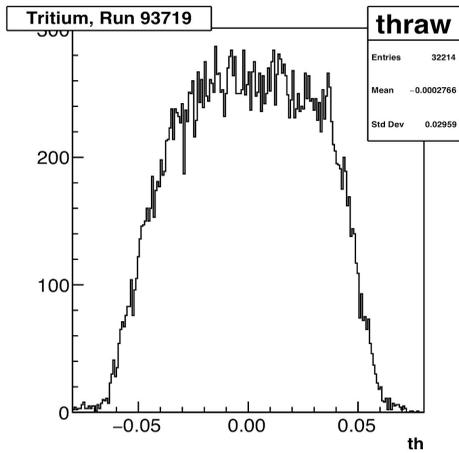

Tritium
R26-PK Example
Helium3

Apply different cuts and check some physics variables
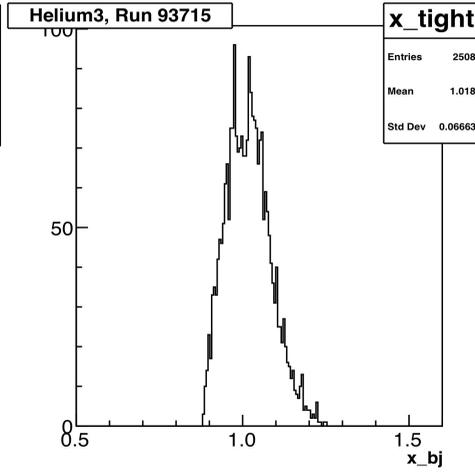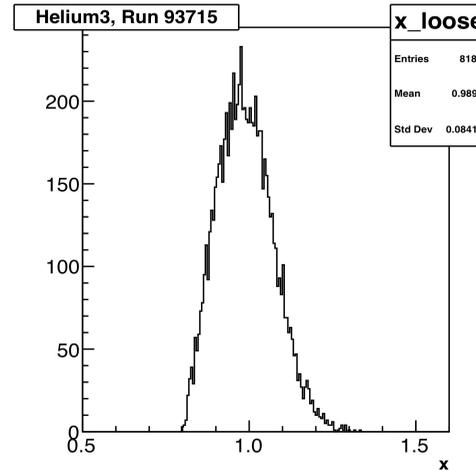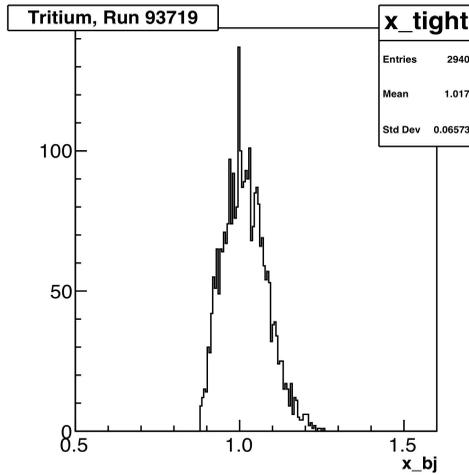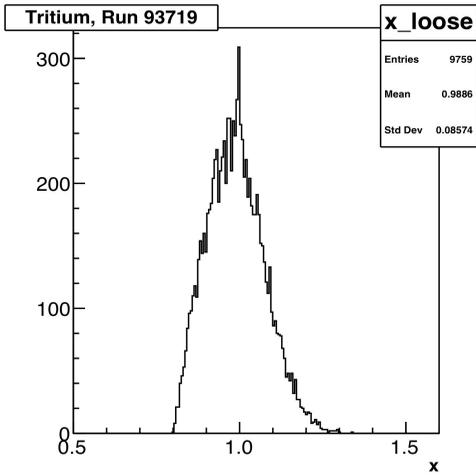
Tritium

Helium3

R26-PK Example

Q2_loose	
Entries	9759
Mean	2.501
Std Dev	0.1591

Q2_tight	
Entries	2940
Mean	2.548
Std Dev	0.1184

Q2_loose	
Entries	8180
Mean	2.501
Std Dev	0.1576

Q2_tight	
Entries	2508
Mean	2.55
Std Dev	0.1188

Tritium

Helium3

w_loose	
Entries	9759
Mean	1.352
Std Dev	0.05992

w_tight	
Entries	2940
Mean	1.338
Std Dev	0.04876

w_loose	
Entries	8180
Mean	1.351
Std Dev	0.05976

w_tight	
Entries	2508
Mean	1.337
Std Dev	0.04933
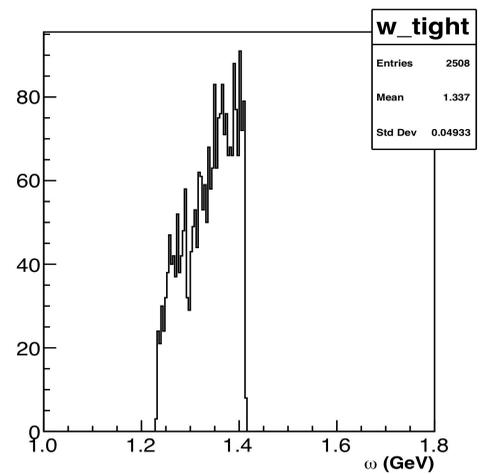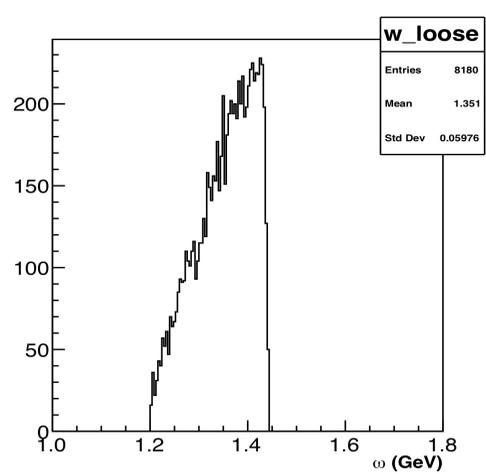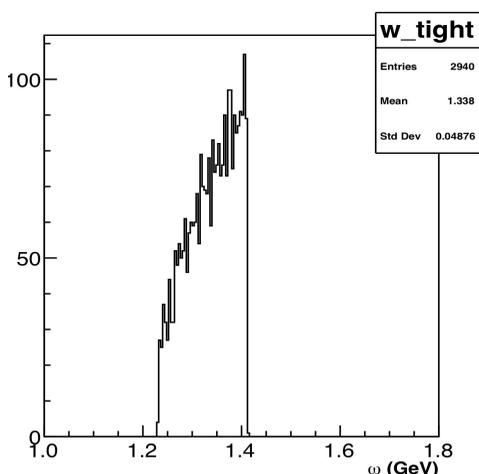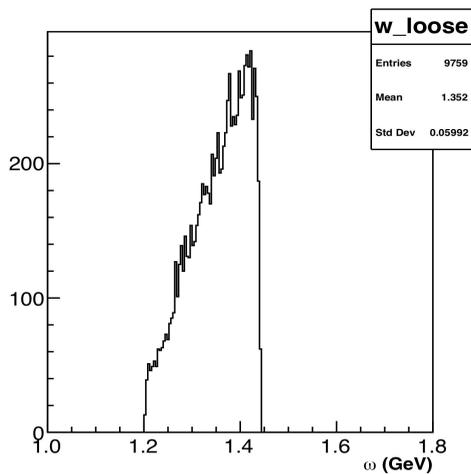
**R26-PK Example**

Briefly checking the runs and only taking runs with current >21 uA
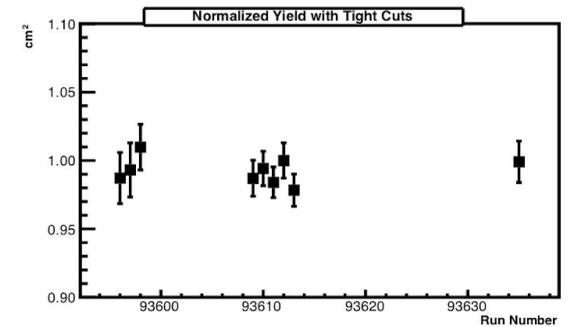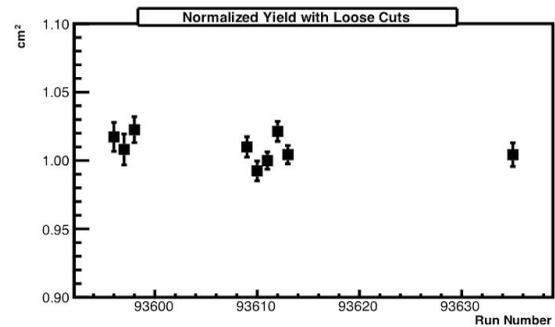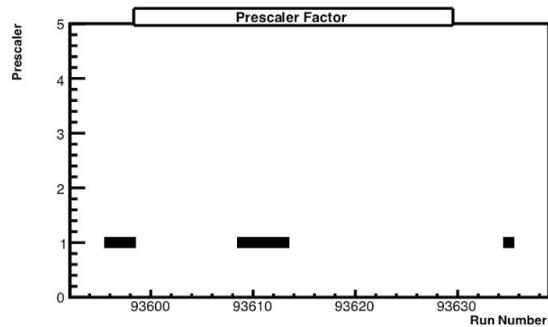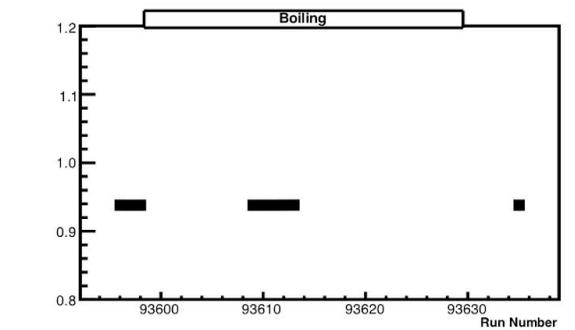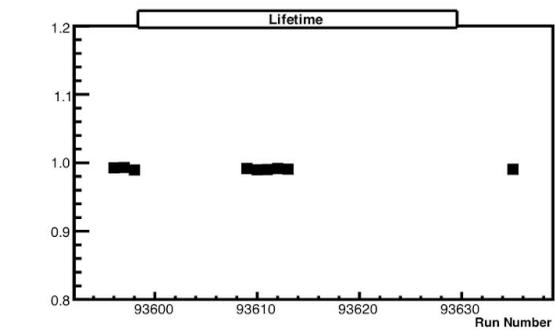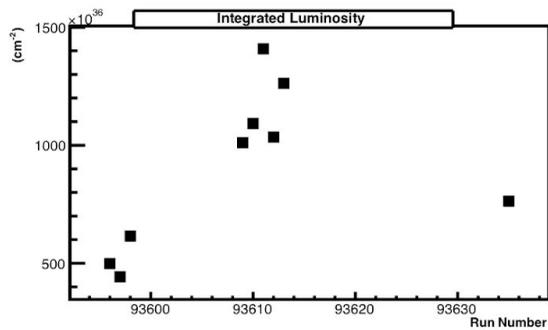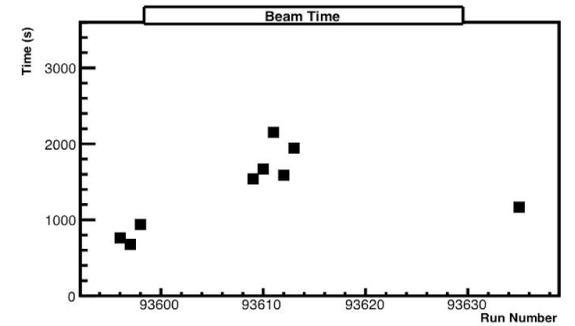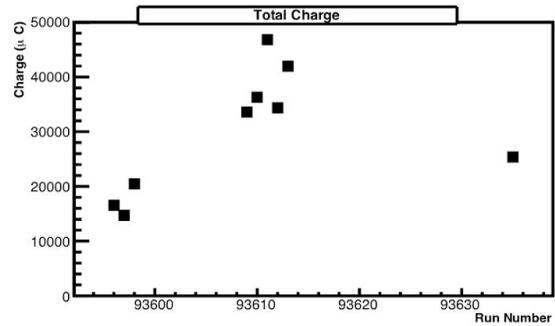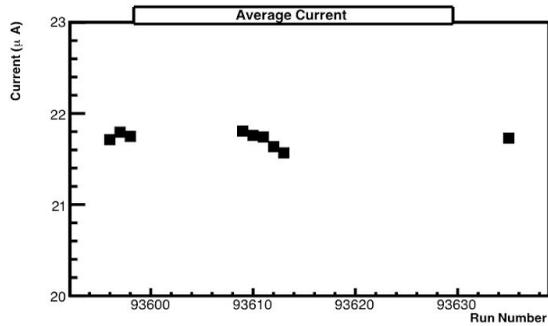
R26-PK Example

Loose cuts

**L26-Tritium
Spring 2018**
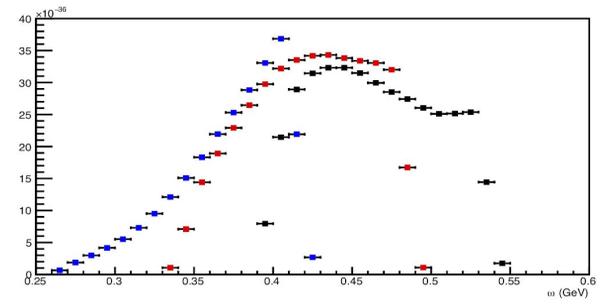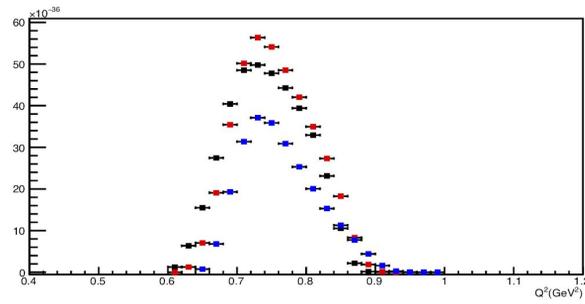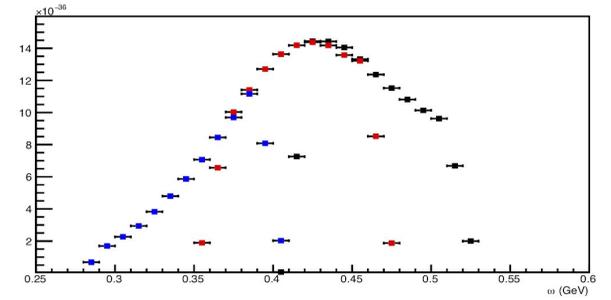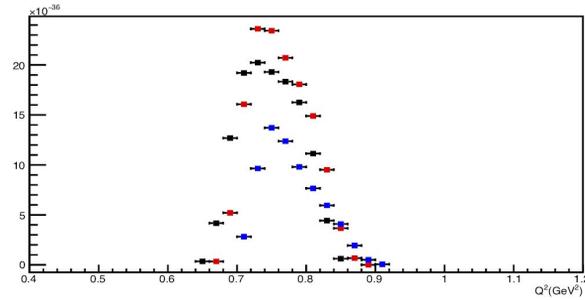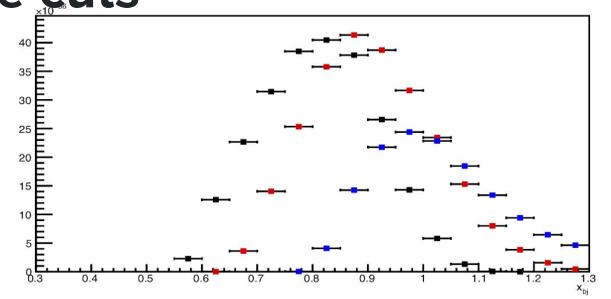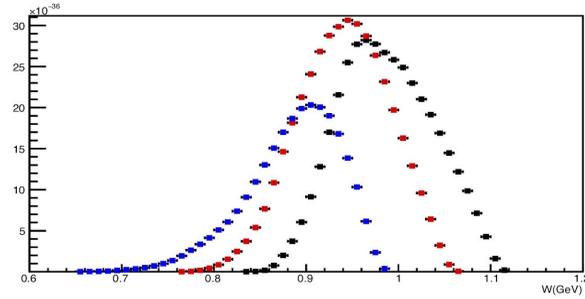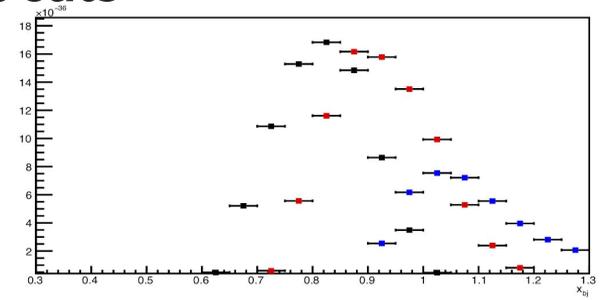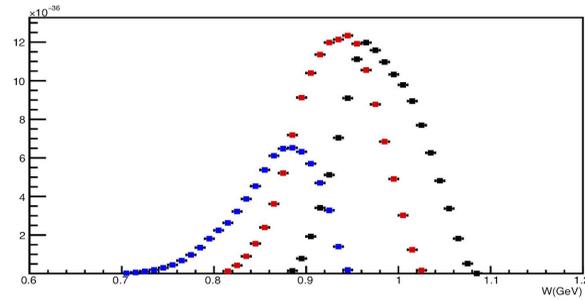
Tight cuts

L26-Helium Spring 2018
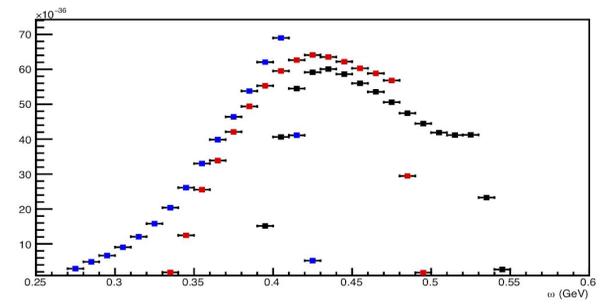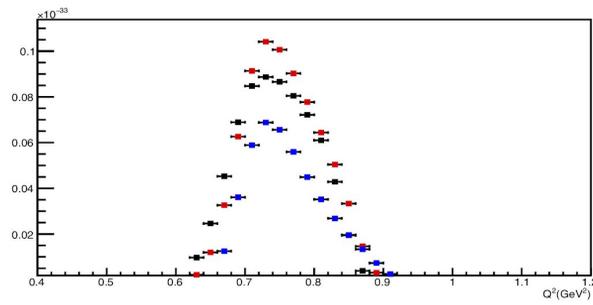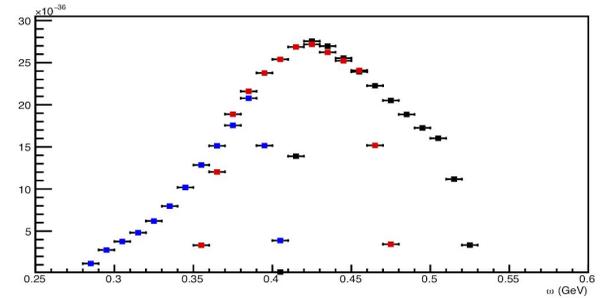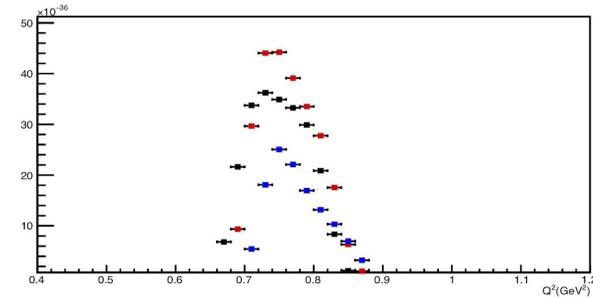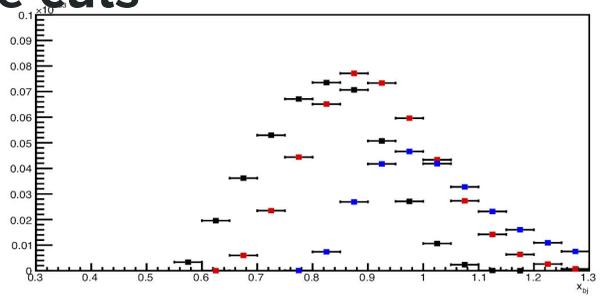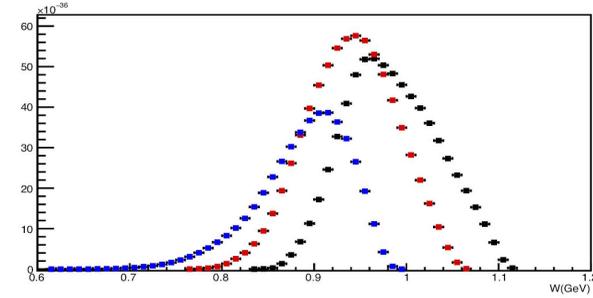
Loose cuts
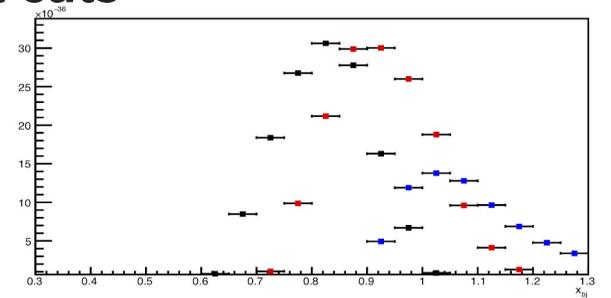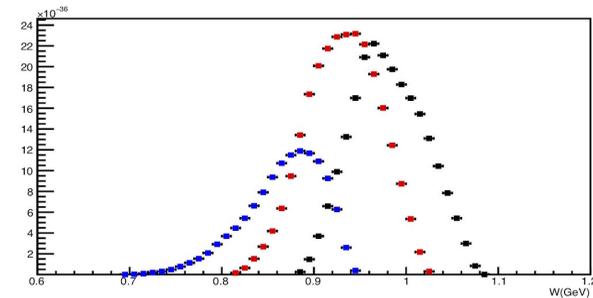
Tight cuts

R42-Tritium Spring 2018
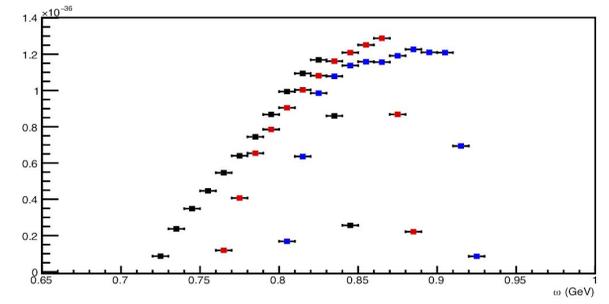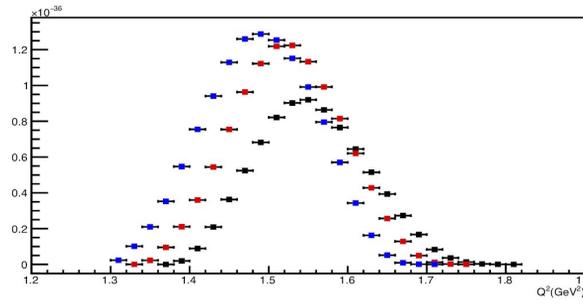
Loose cuts
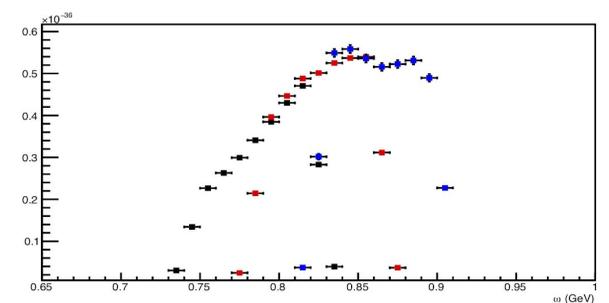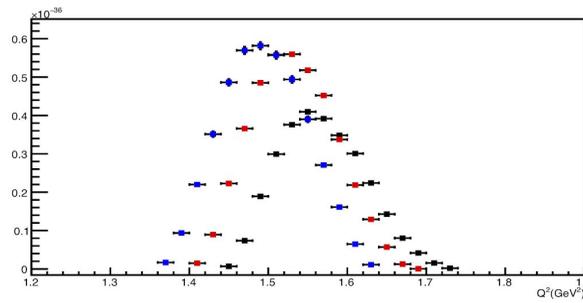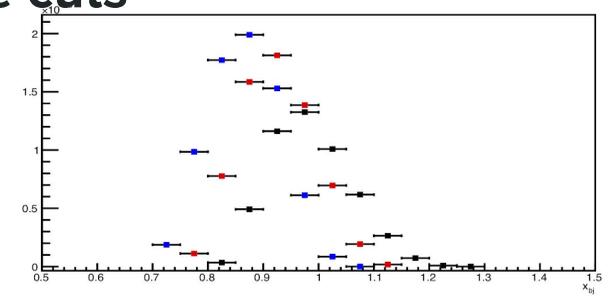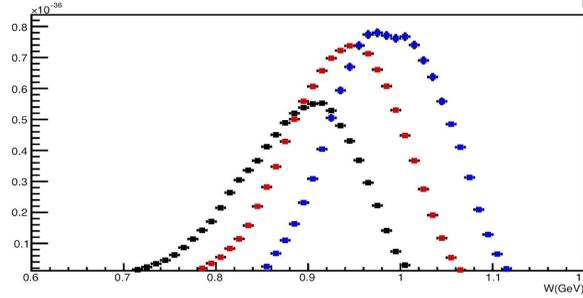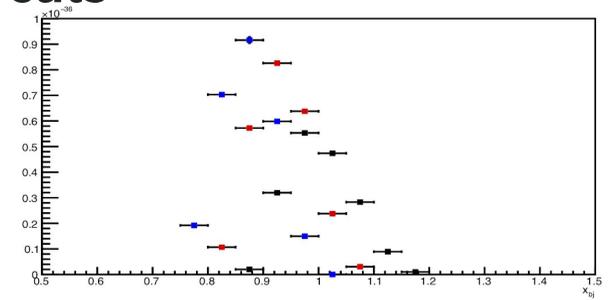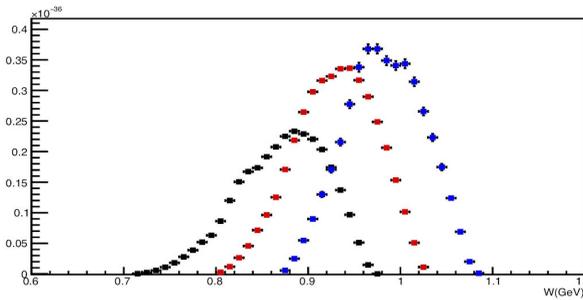
Tight cuts

R42-Helium Spring 2018
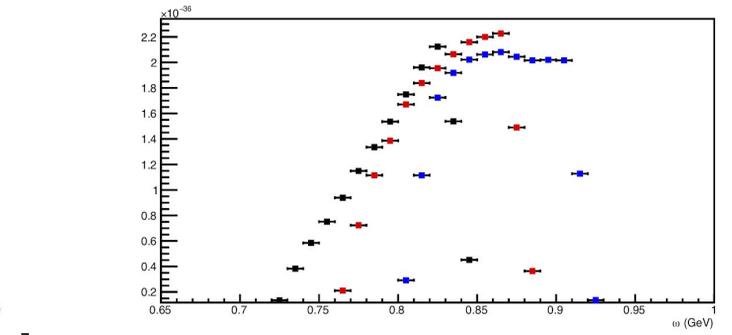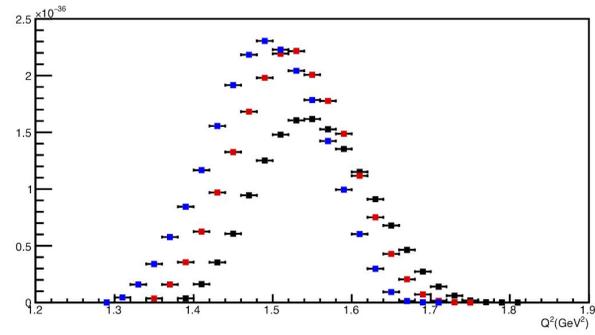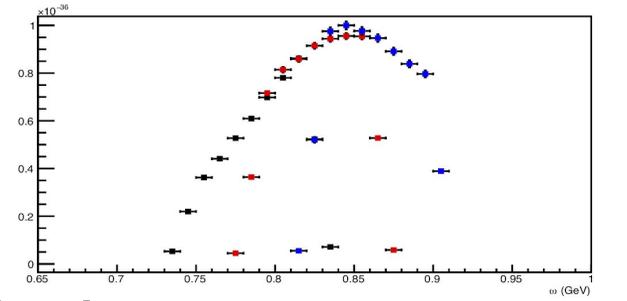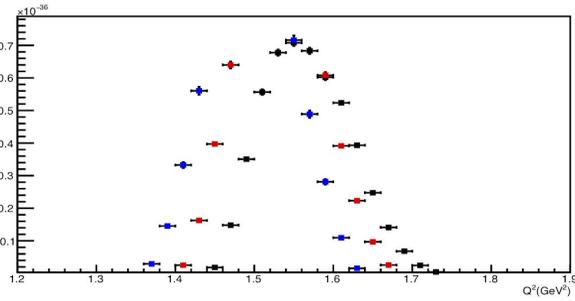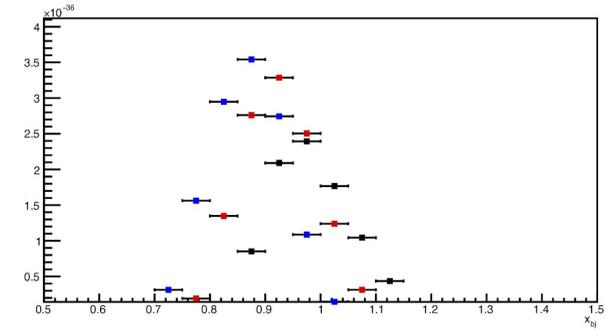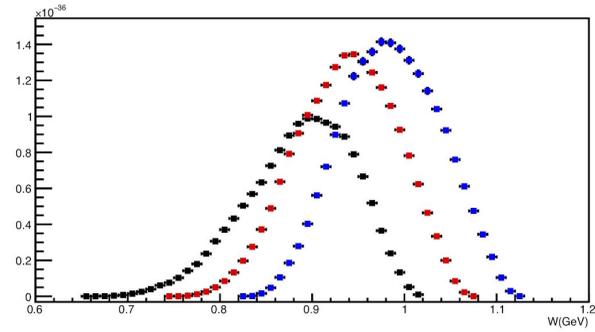
Loose cuts
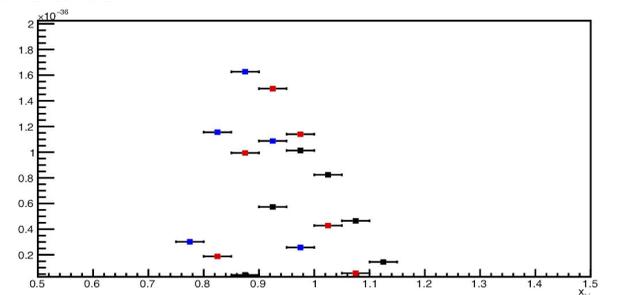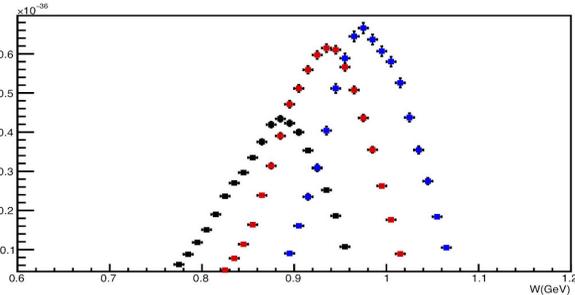
Tight cuts

**R26-Tritium
Fall 2018**

Loose cuts
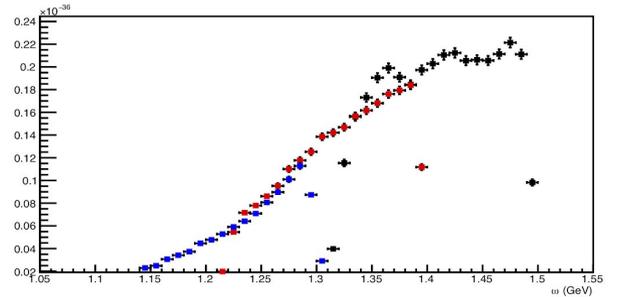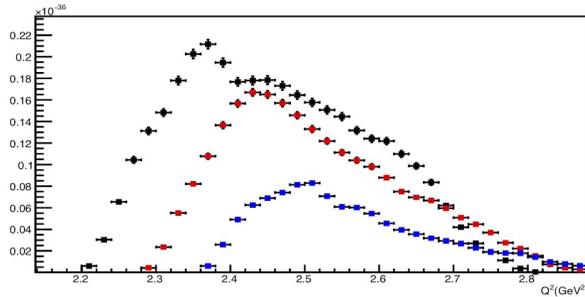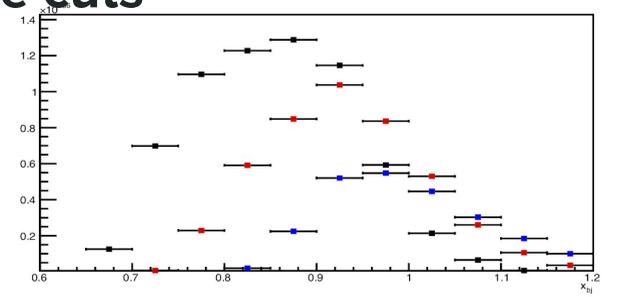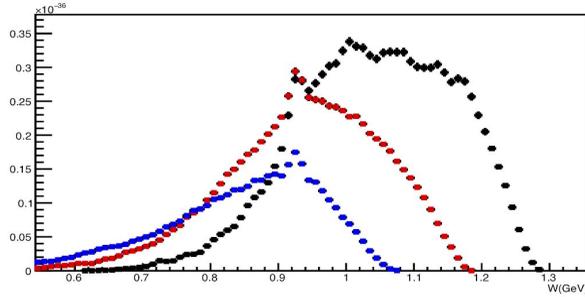
Tight cuts
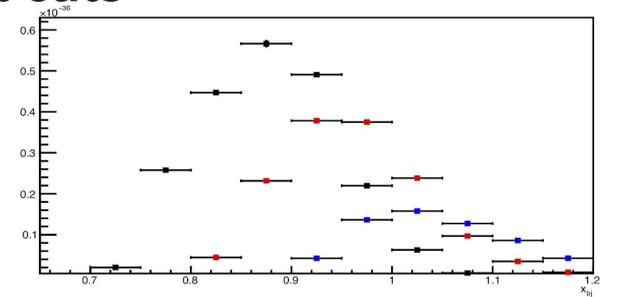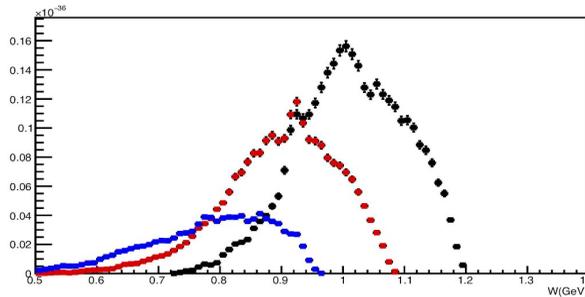
Loose cuts

**R26-Helium
Fall 2018**
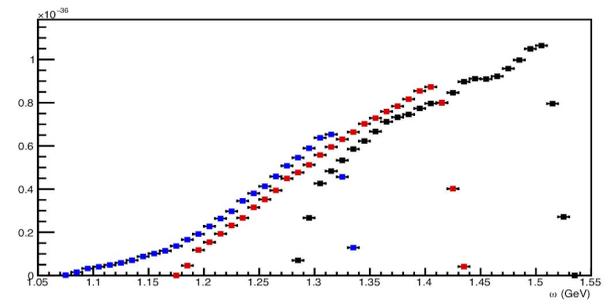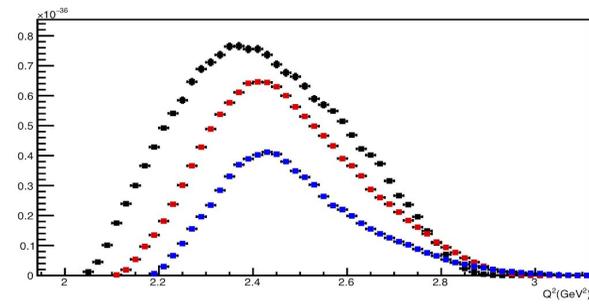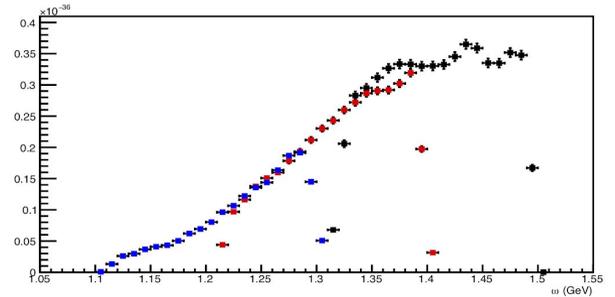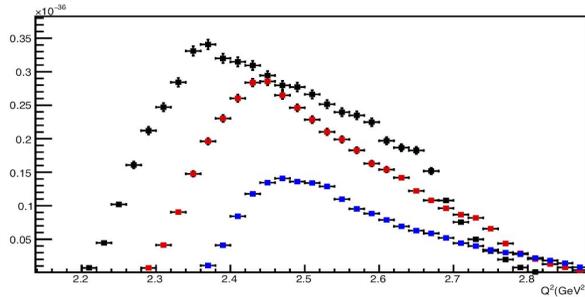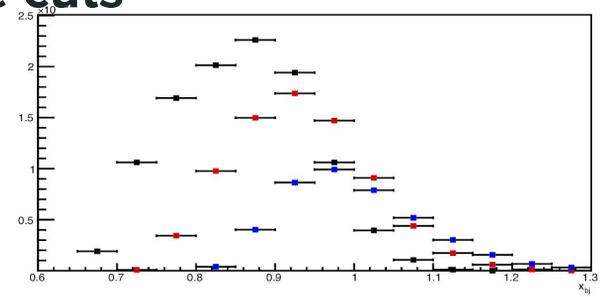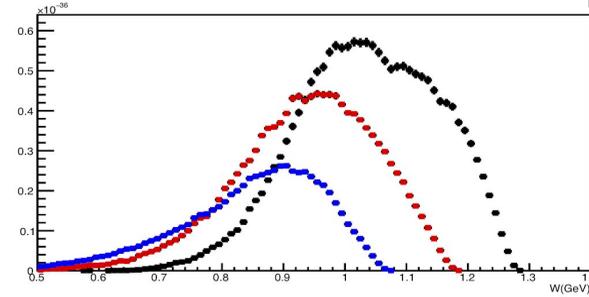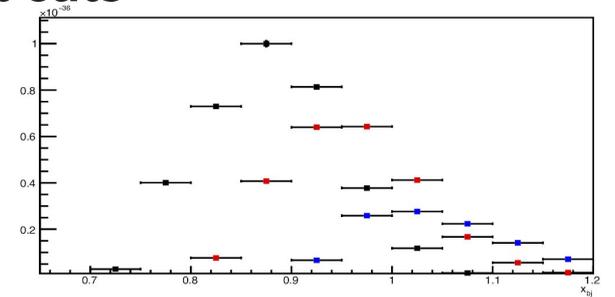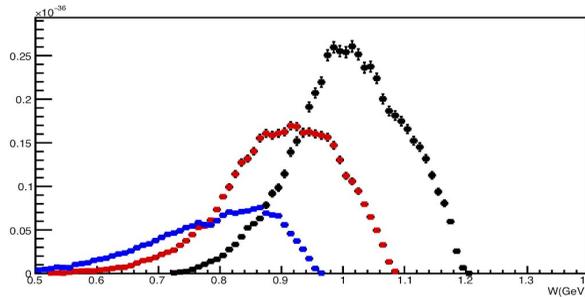
Tight cuts

Cuts

Loose cuts

|ph| < 0.035
|th|<0.05
|dp|<0.04

Tight cuts

|ph| < 0.035
|th|<0.05
|dp|<0.04

Common Cuts

Trigger 2
E/p>0.75
cer_asum>2000
L.tr.n == 1
|vz|<0.08