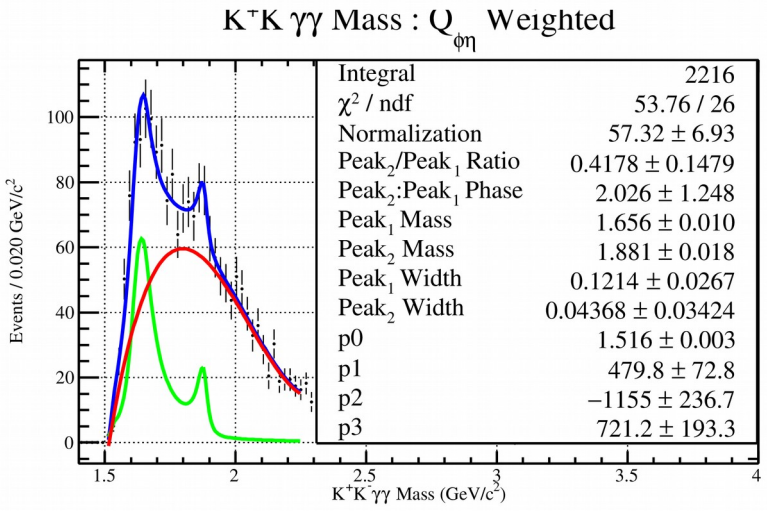
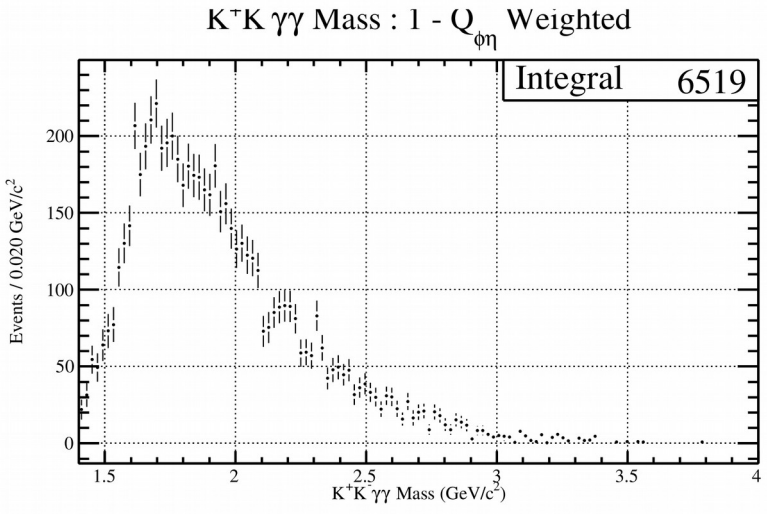
Final Plot Studies

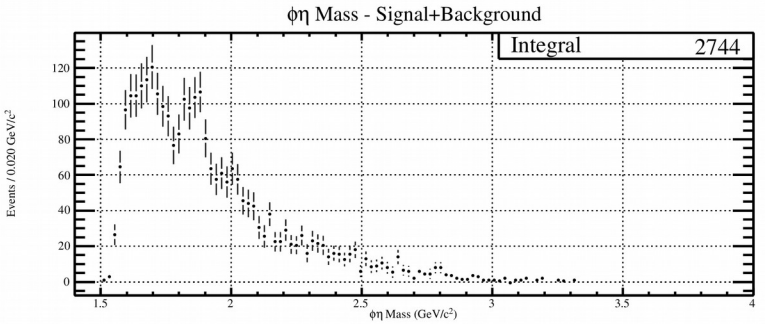
- Two Data Sets are considered (for now):
  - Joint Qvalue
  - Elliptical Subtraction

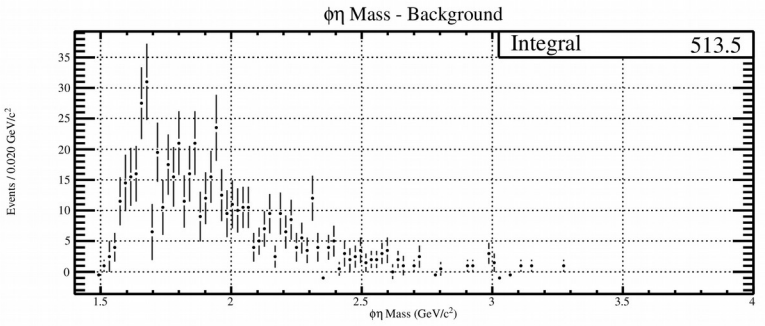
- I look at the significance of different fits for PhiEta Invariant Mass
- Cos Theta, GJ Will be shown as well

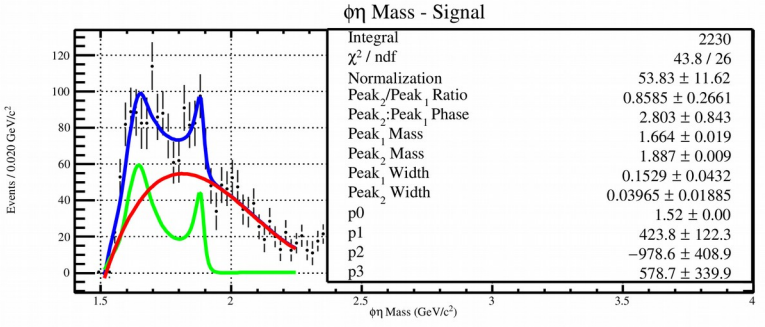
Fit with 2 BW's



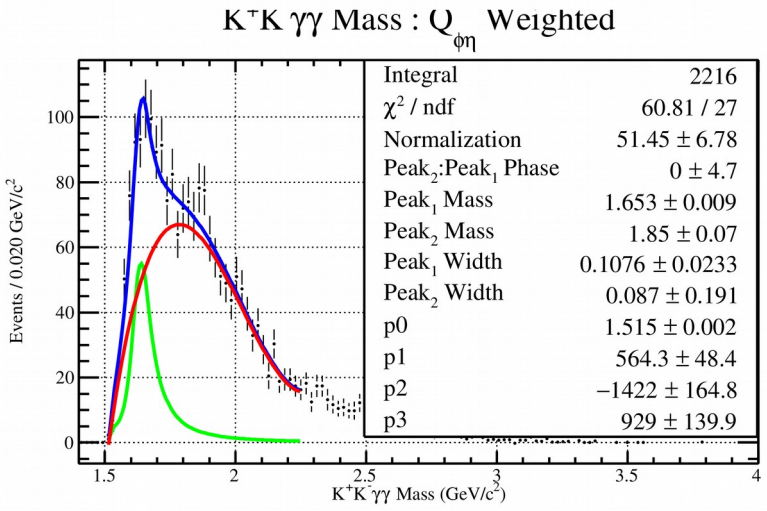


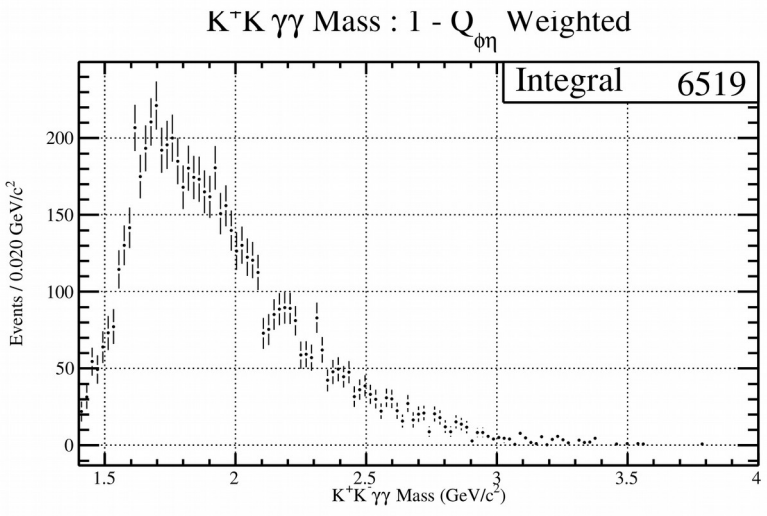


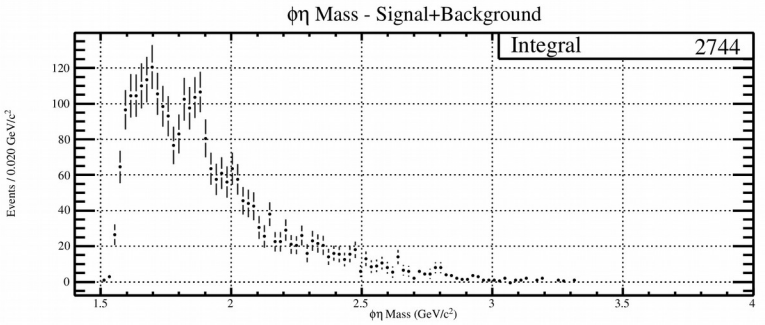


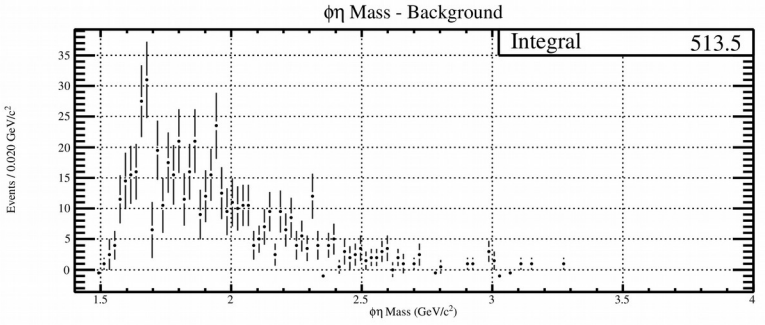


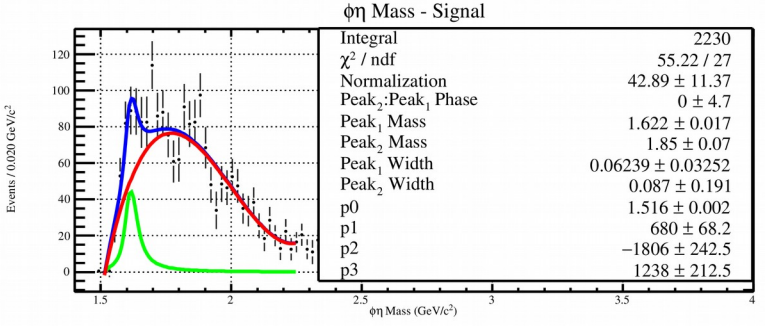
Fit with 1 BW @ 1680



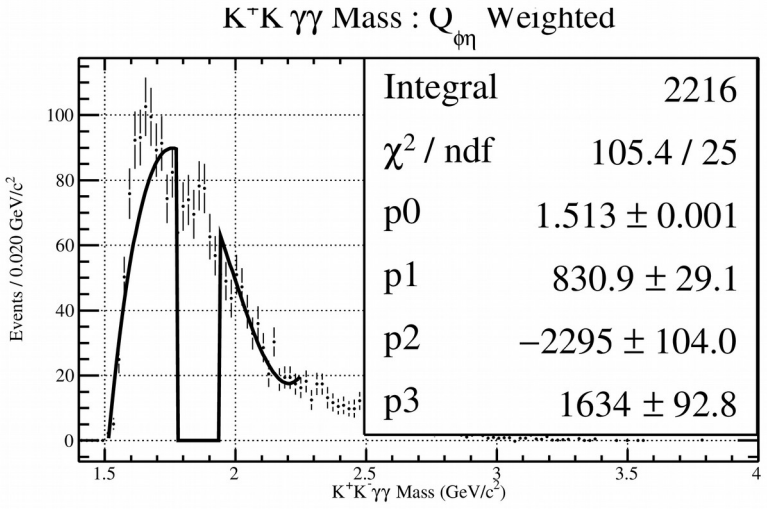


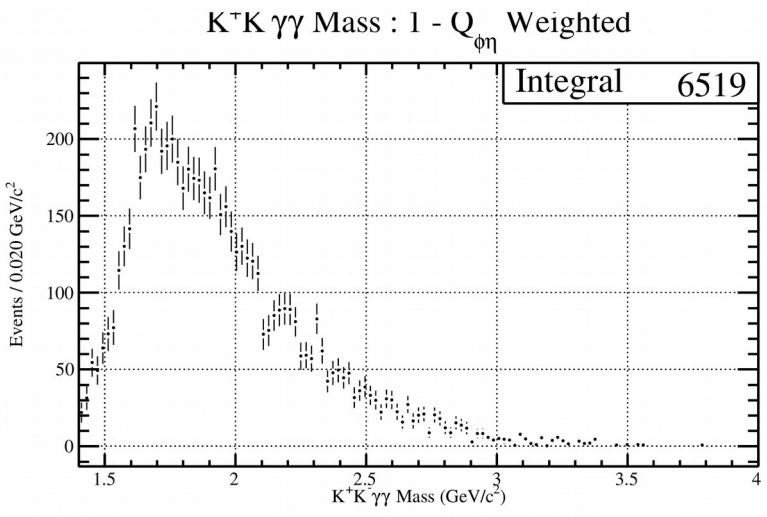


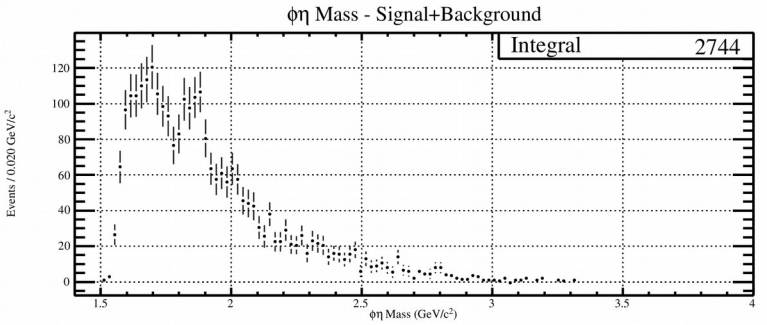


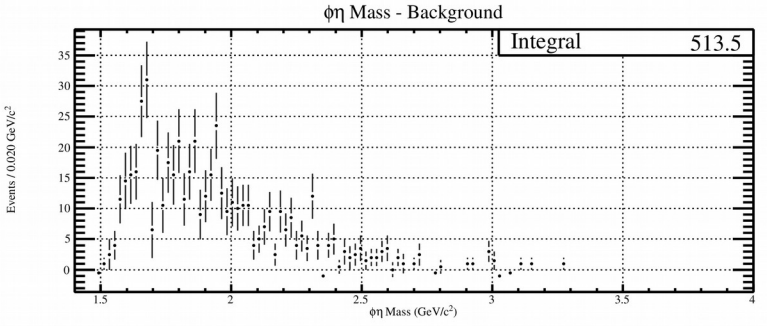


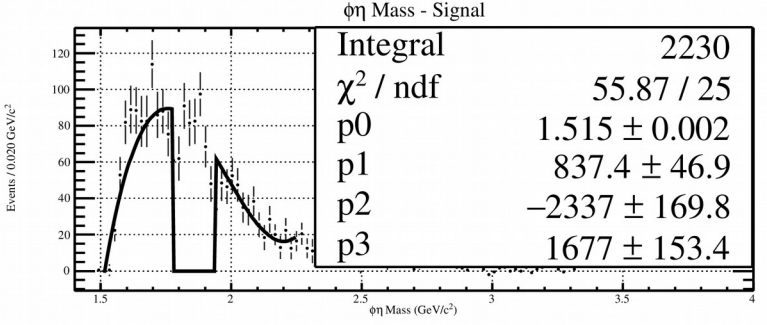
Attempted Fit with 1 BW @ 1850



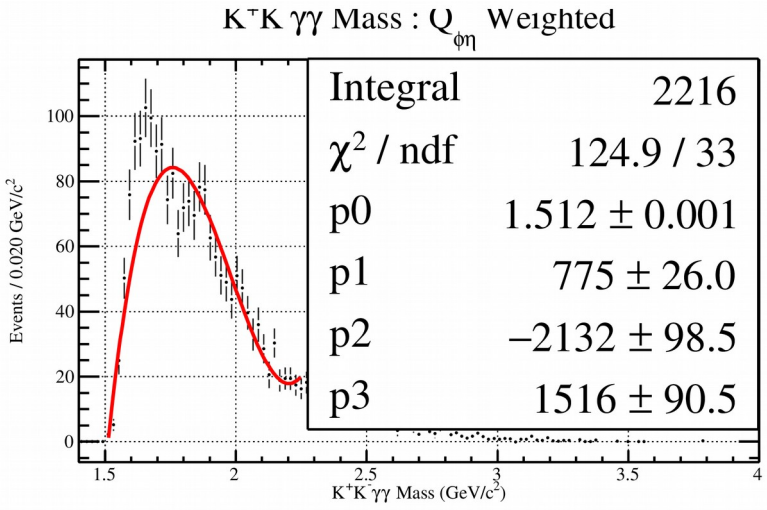


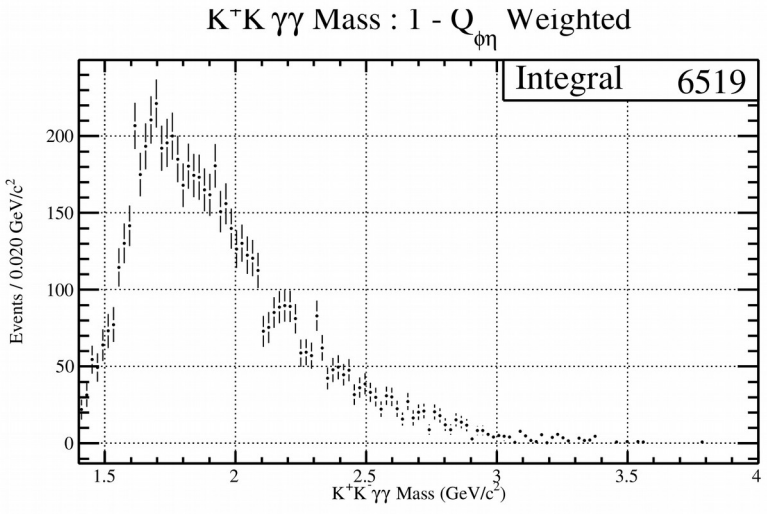


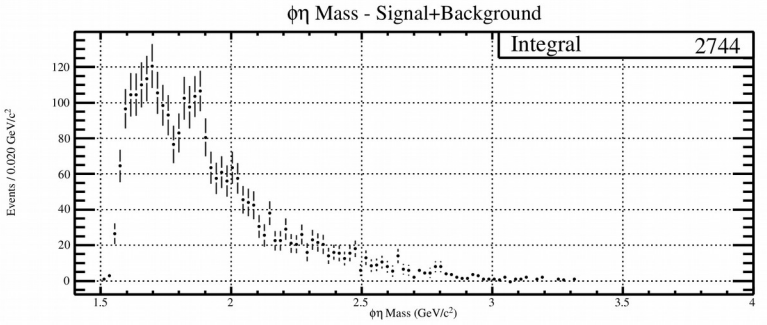


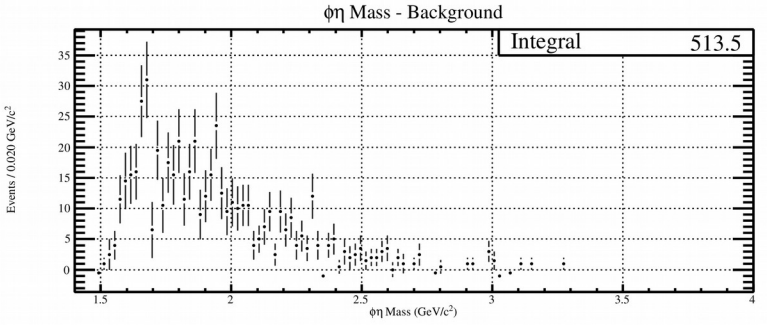


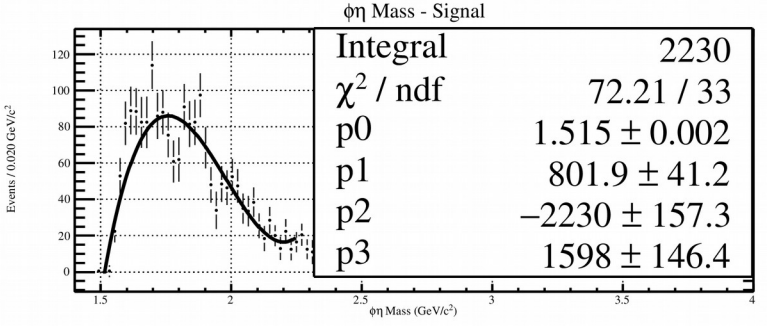
Fit with 0 BW


K⁺K γγ Mass : Q_φη Weighted
Integral 2216
χ² / ndf 124.9 / 33
p0 1.512 ± 0.001
p1 775 ± 26.0
p2 −2132 ± 98.5
p3 1516 ± 90.5
Events / 0.020 GeV/c²
K⁺K γγ Mass (GeV/c²)


K⁺K γγ Mass : 1 - Q_φη Weighted
Integral 6519
Events / 0.020 GeV/c²
K⁺K γγ Mass (GeV/c²)


φη Mass - Signal+Background
Integral 2744
Events / 0.020 GeV/c²
φη Mass (GeV/c²)

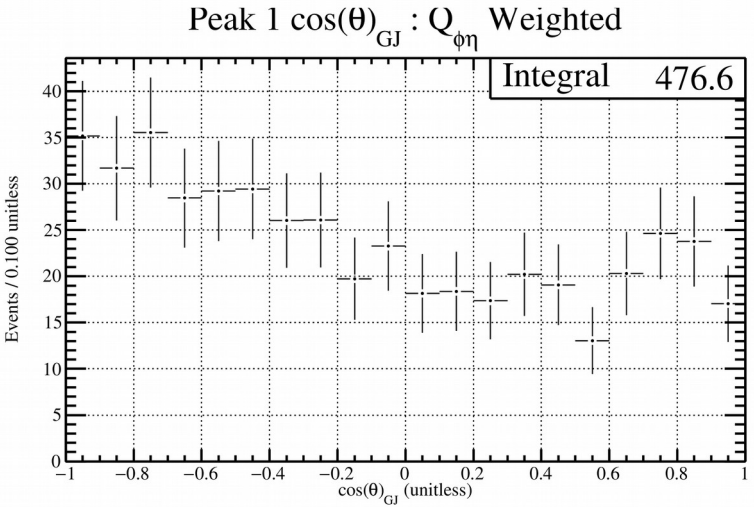

φη Mass - Background
Integral 513.5
Events / 0.020 GeV/c²
φη Mass (GeV/c²)

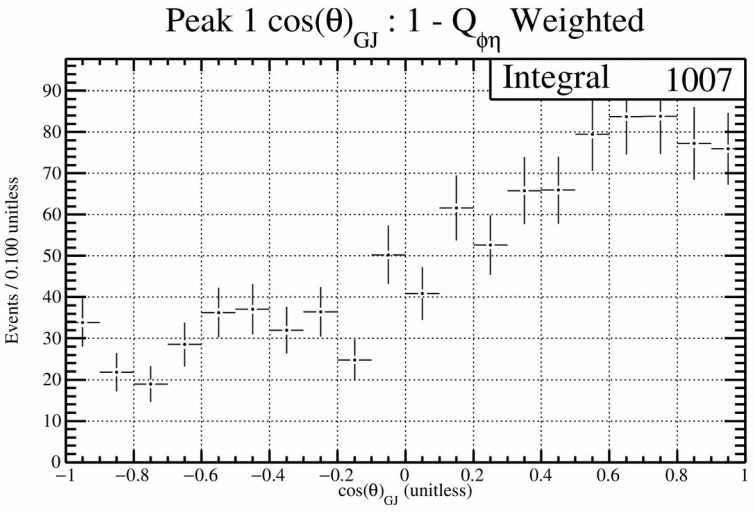

φη Mass - Signal
Integral 2230
χ² / ndf 72.21 / 33
p0 1.515 ± 0.002
p1 801.9 ± 41.2
p2 −2230 ± 157.3
p3 1598 ± 146.4
Events / 0.020 GeV/c²
φη Mass (GeV/c²)

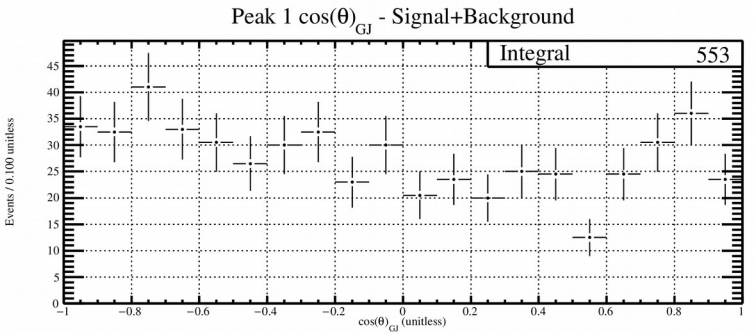
Summary Of Fits

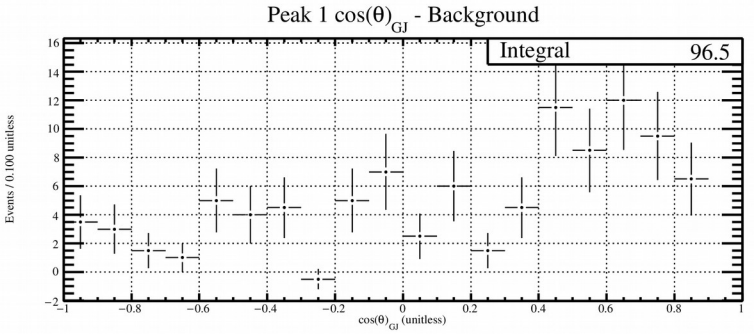
Fit	Qvalue	Elliptical
• 2 BW:	2.07	1.68
• 1 BW(1680):	2.25	2.05
• 1 BW(1850):	4.22	2.23
• 0 BW:	3.78	2.19

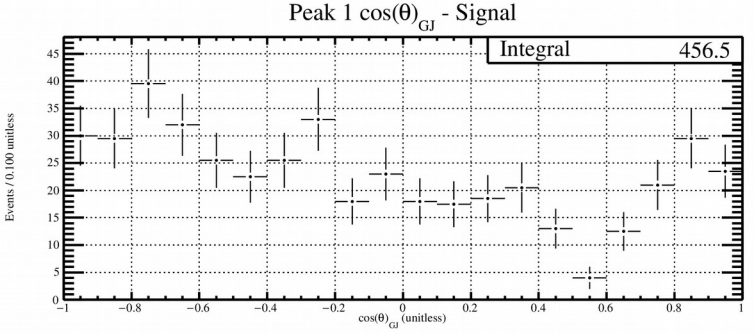
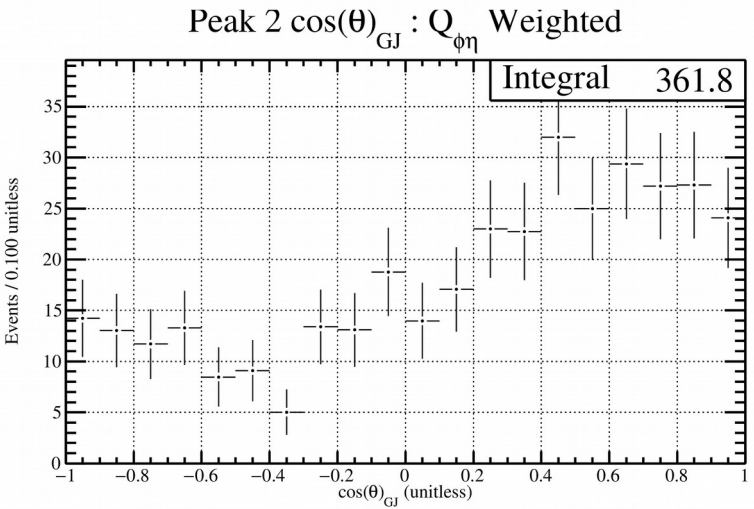
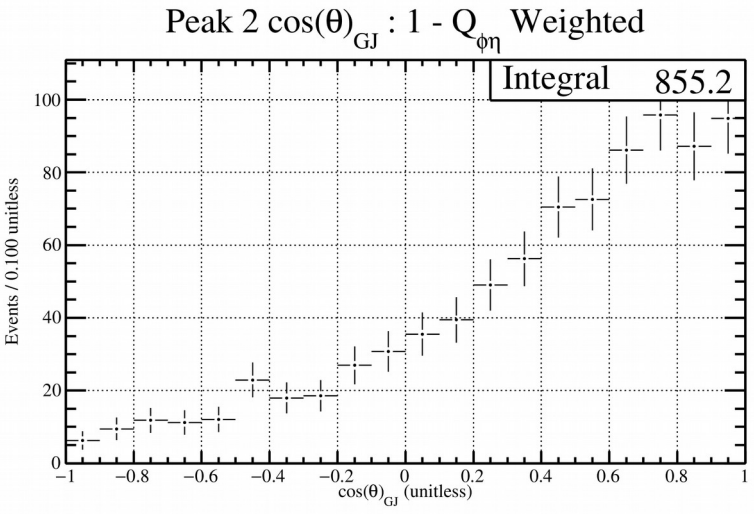
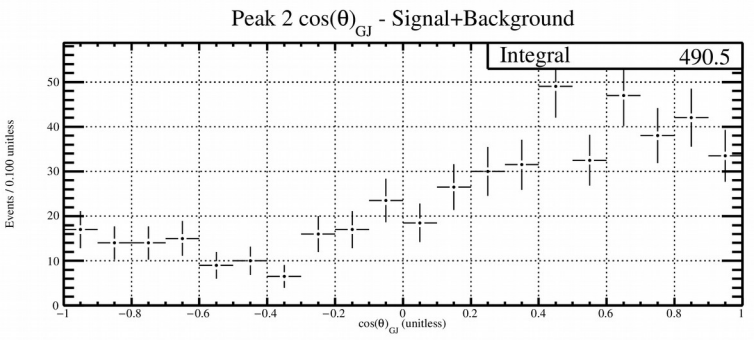
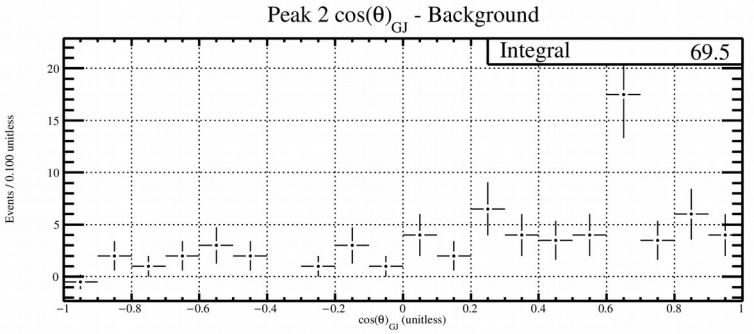
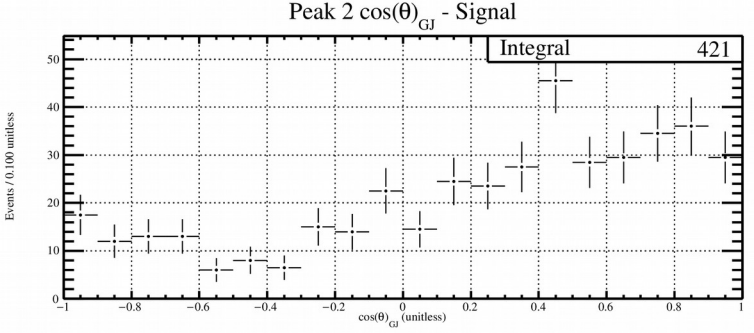
Cos Theta, GJ (1680)











Cos Theta, GJ (1850)