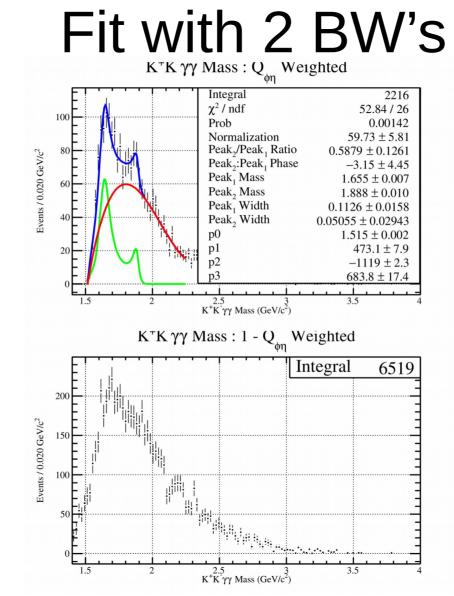
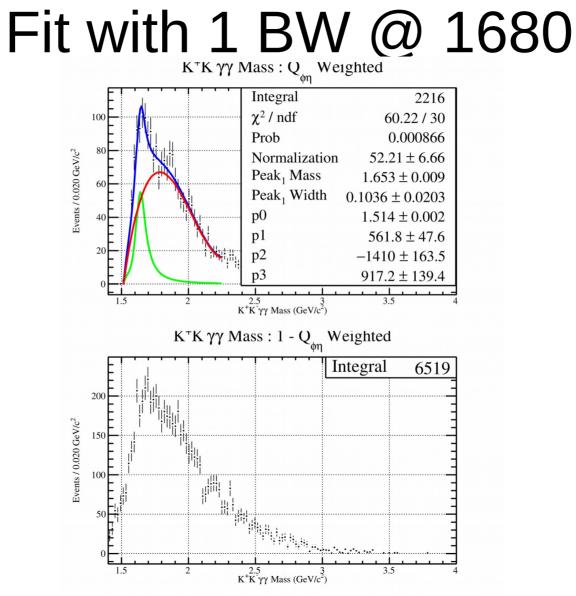
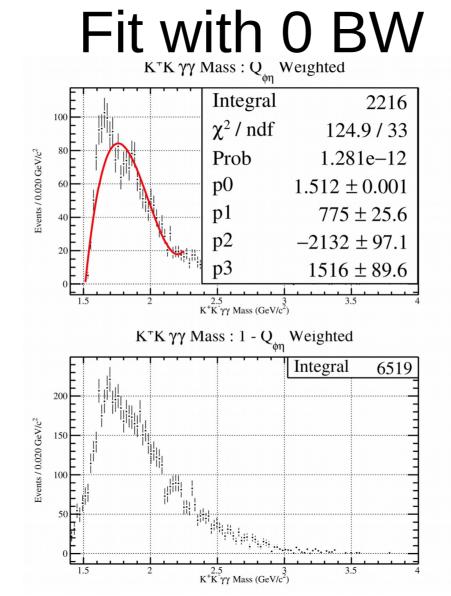
PhiEta Invariant Mass Study

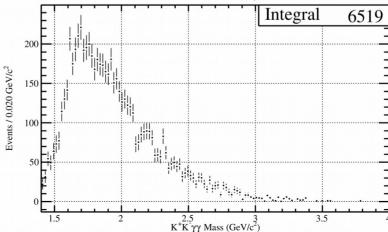
- I look at the significance of different fits for PhiEta Invariant Mass (again)
- Box Cut Study of PhiEta Backgrounds
- Go over 6 week schedule



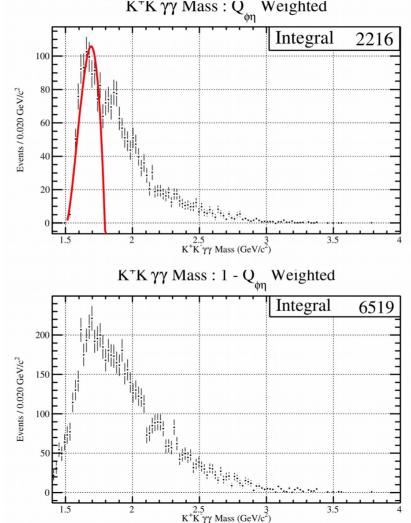




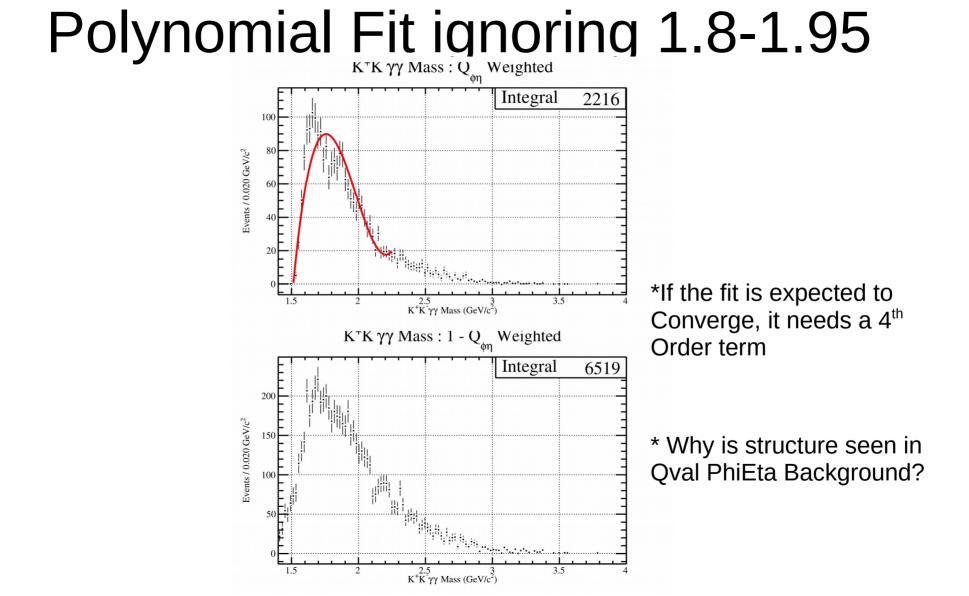
Attempted Fit for peak @ 1850 2216 36.92 ± 20.82 Normalization Peak /Peak , Ratio 1 ± 0.0 Peak Peak, Phase 0 ± 0.0 Peak Mass 100 1.65 ± 0.00 Peak, Mass 1.861 ± 0.001 Peak, Width 0 ± 0.0 Peak, Width 0.0004249 ± 0.0051735 n0 1.512 ± 0.001 7739+36 Events / 0.020 GeV/c² -2129 ± 31.8 1514 ± 40.9 60 40 20 1.5 2 $\frac{2.5}{K^+K\gamma\gamma}$ Mass (GeV/c²) 3.5 $K^{+}K \gamma \gamma$ Mass : 1 - $Q_{\phi\eta}$ Weighted Integral 6519 200

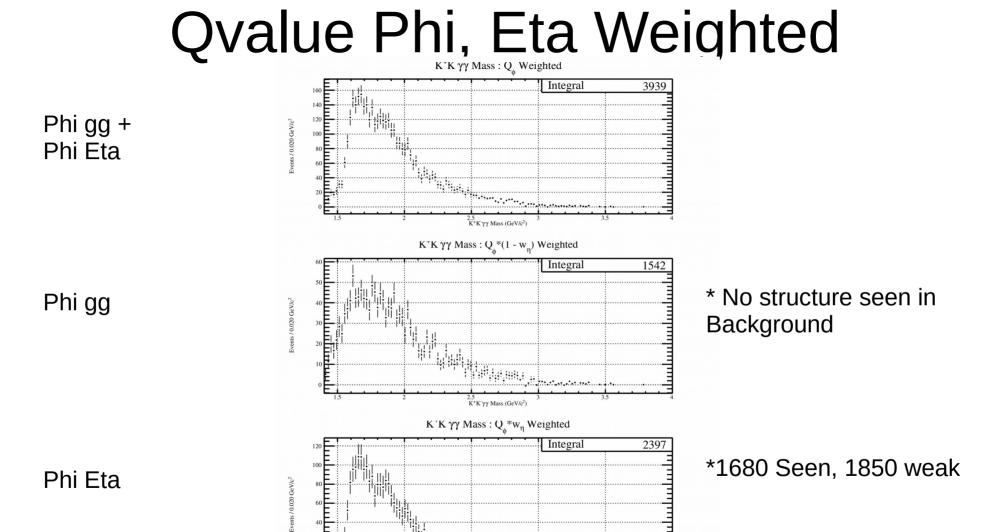


Polynomial Fit between 1.5-1.8

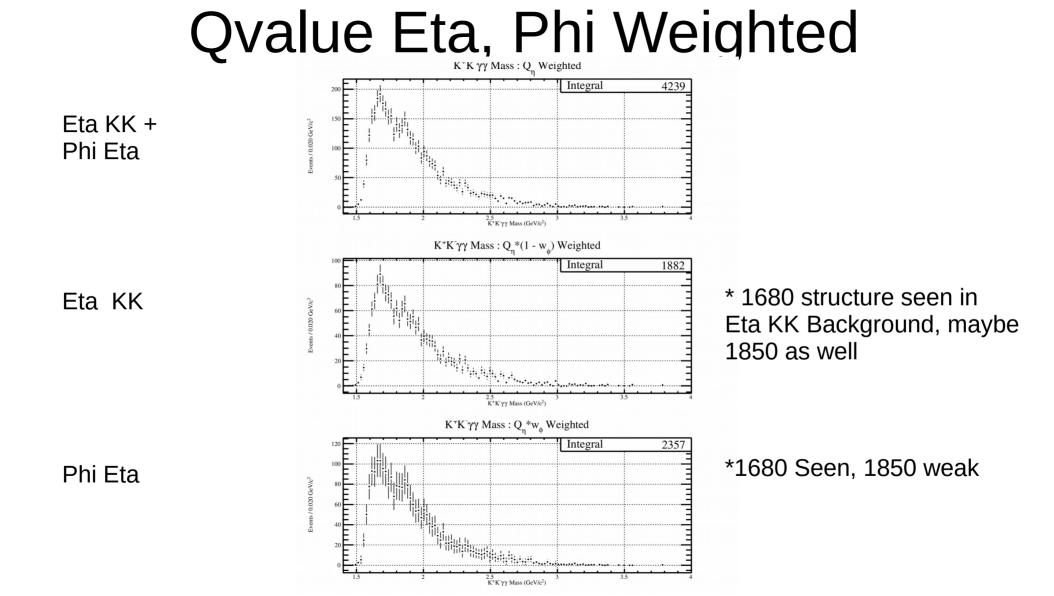


*The 2nd order term is too Narrow to describe the first Peak and the rest of the Invariant mass plot, even With the addition of a 3rd Order term

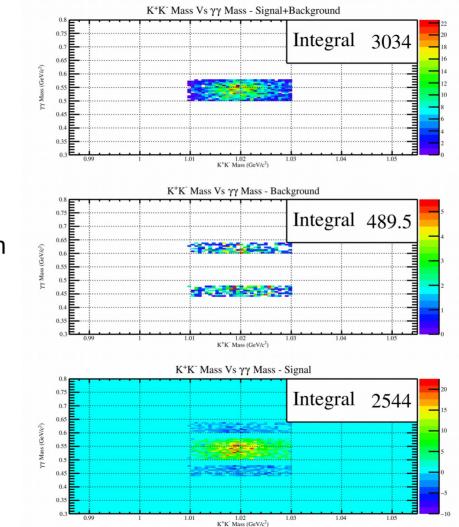




2.5 K⁺K⁻γγ Mass (GeV/c²)



Box Cut Study: Select Phi, gg sidebands



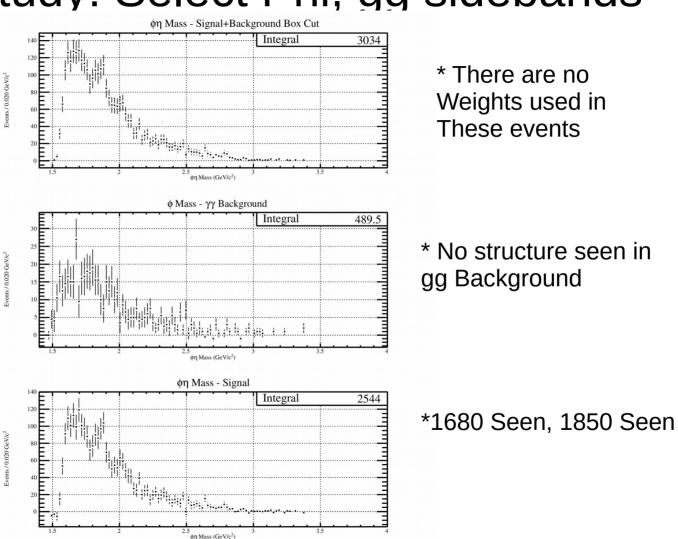
* There are no Weights used in These events

Box Cut Study: Select Phi, gg sidebands

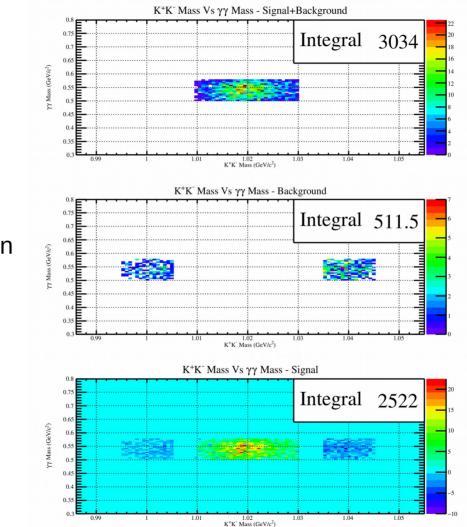
Phi gg+ PhiEta

Phi gg





Box Cut Study: Select Eta, KK sidebands



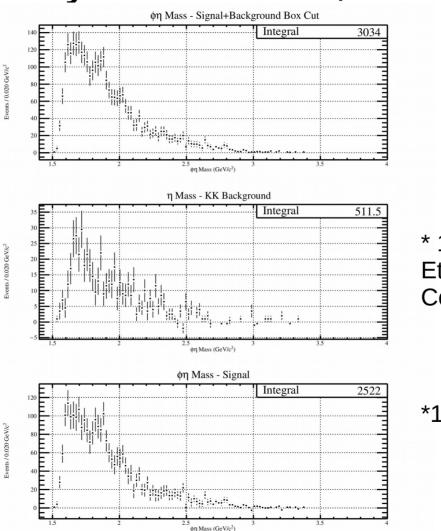
* There are no Weights used in These events

Box Cut Study: Select Eta, KK sidebands

Eta KK + PhiEta

Eta KK

PhiEta



* There are no Weights used in These events

* 1680 structure seen in Eta KK Background, Consistent with Qval_Eta!

*1680 Seen, 1850 Seen

Qvalue PhiEta, Select the Phi

Normalization 53.61 ± 7.10 100 Peak /Peak , Ratio 0.4871 ± 0.2028 Peak Peak, Phase 2.428 ± 1.257 Peak Mass 1.654 ± 0.010 Peak, Mass 1.885 ± 0.014 Peak, Width 0.1159 ± 0.0241 Peak, Width 0.04814 ± 0.03505 1.515 ± 0.002 430 6 + 77 3 Events / 0.020 GeV/c² -1019 ± 249.2 621 1 + 20 201.5 3.5 2 $K^+K\gamma\gamma$ Mass (GeV/c²) $K^{+}K \gamma \gamma$ Mass : 1 - $Q_{\phi \eta}$ Weighted 120 Integral 3132 100 Events / 0.020 GeV/c² 80 60 20

^{2.5}/_K⁺K γγ Mass (GeV/c²)

1.5

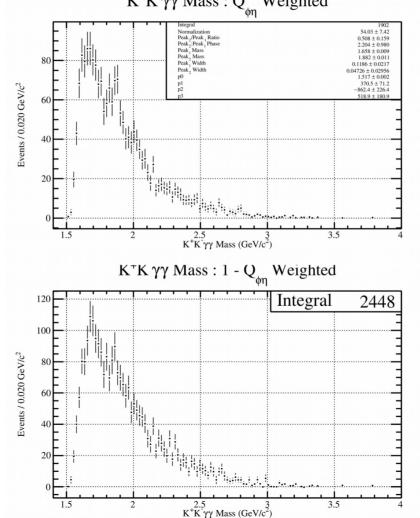
2

3.5

PhiEta

Phi gg

Qvalue PhiEta, Select the Eta $K^{*}K \gamma \gamma Mass : Q_{qn} Weighted$



PhiEta

Eta KK

Schedule In The Next 6 Weeks:

		MAR	CH	201	9	
SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5 Today	6	7	8	9
10	11	12	13	14	15 Send to P & S	16
17	18	19	20 Edit Thesis	21	22	23
24	25 90% Deadline	26	27 Edit Thesis	28	29 Send to committee	
31						
	Do	wnload & Print Fre	e Calendars From w	/ww.wiki-calenda	r.com	

Schedule In The Next 6 Weeks:

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3 Make/ Practice	4	5	6
			Talk			
7	8	9	10_{Make/} Practice	11	12 Defense	13
			Talk			
14	15	16	17 Make	18	19	20
			Corrections			
21	22 Thesis Due	23	24	25	26	27
28	29	30				