Monte Carlo study of background from B_1 reactions

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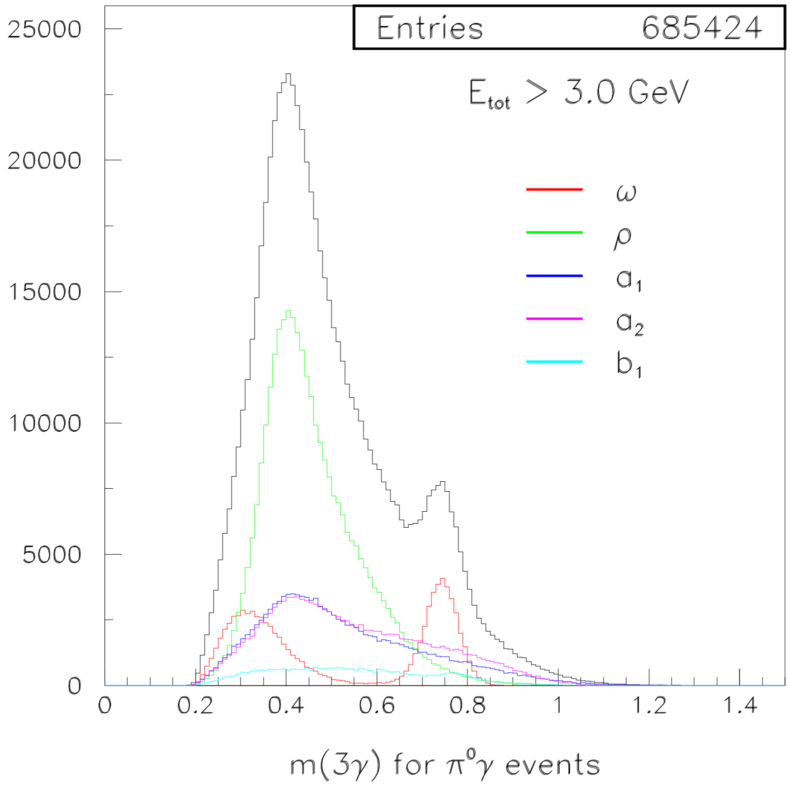
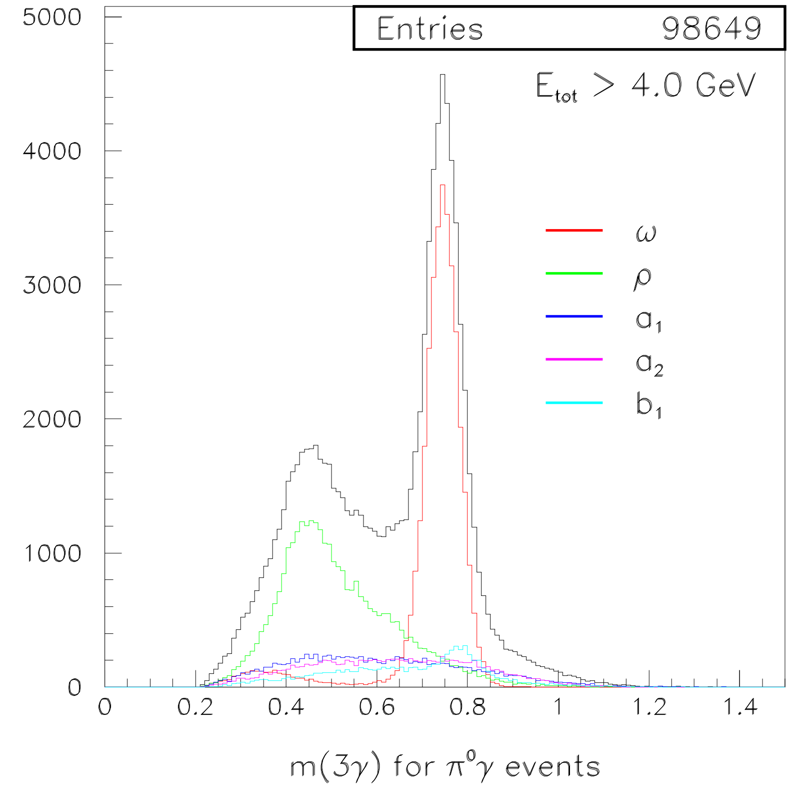
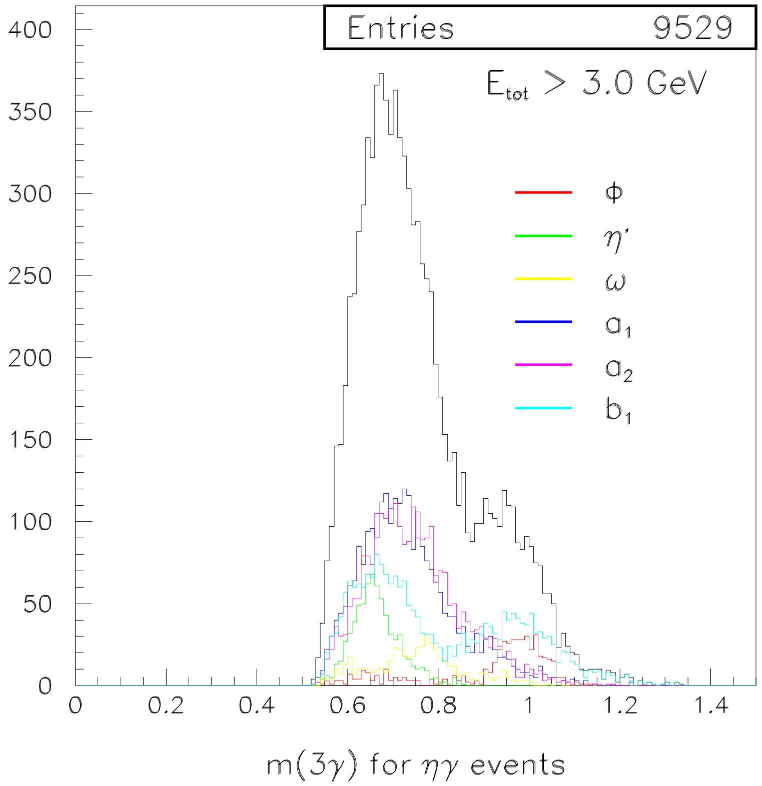
Collaboration Meeting
November 17, 2001

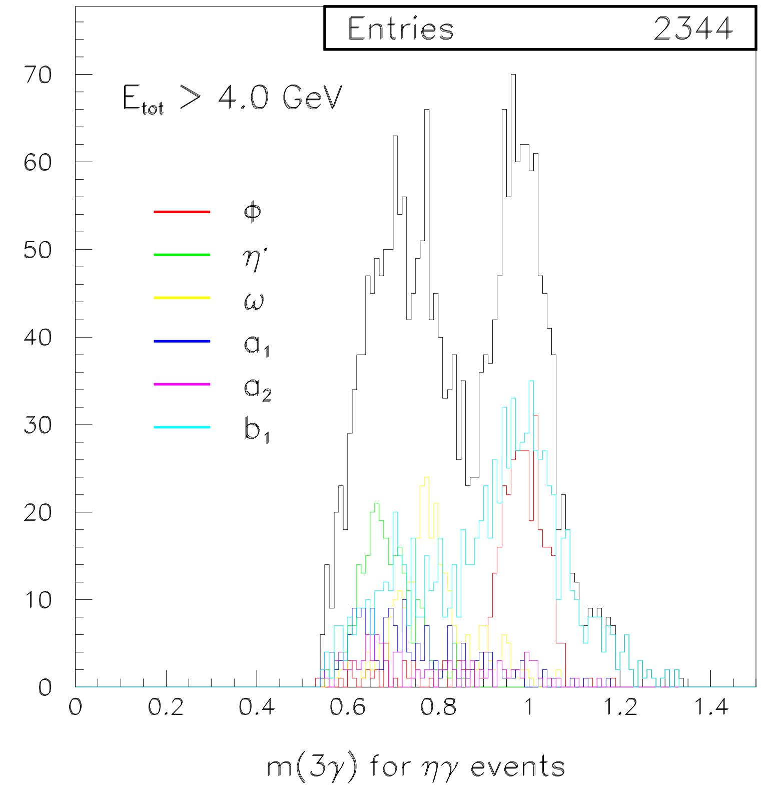


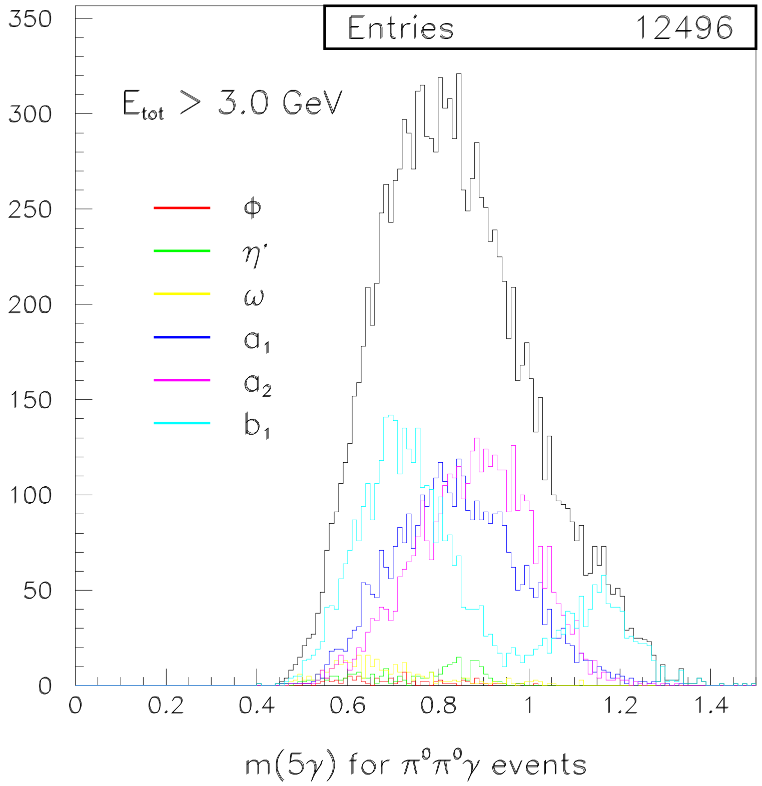
Entries 685424
$E_{tot} > 3.0$ GeV
ω
ρ
a_1
a_2
b_1
25000
20000
15000
10000
5000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
m(3γ) for $\pi^0\gamma$ events

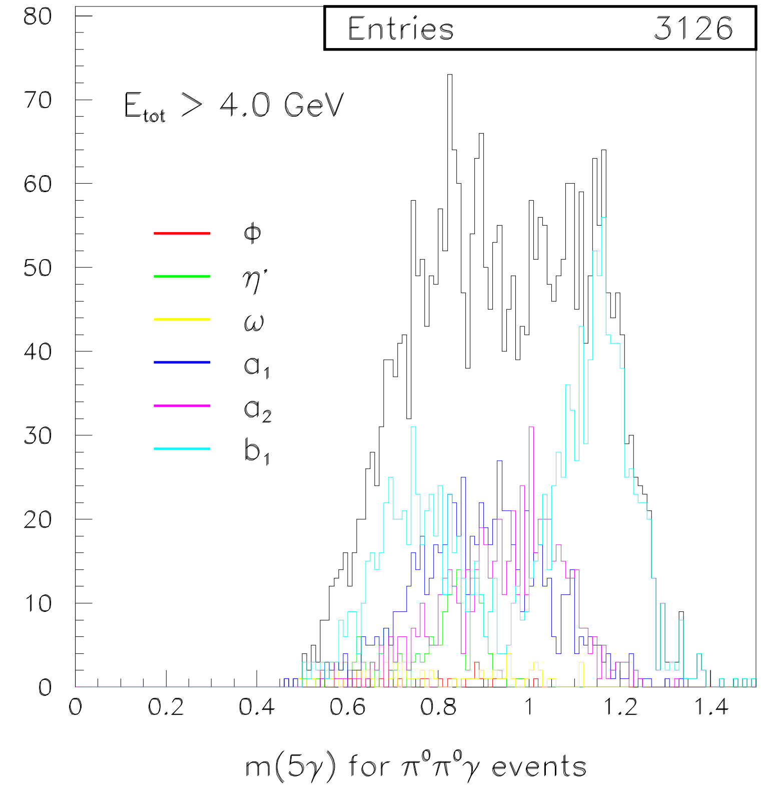


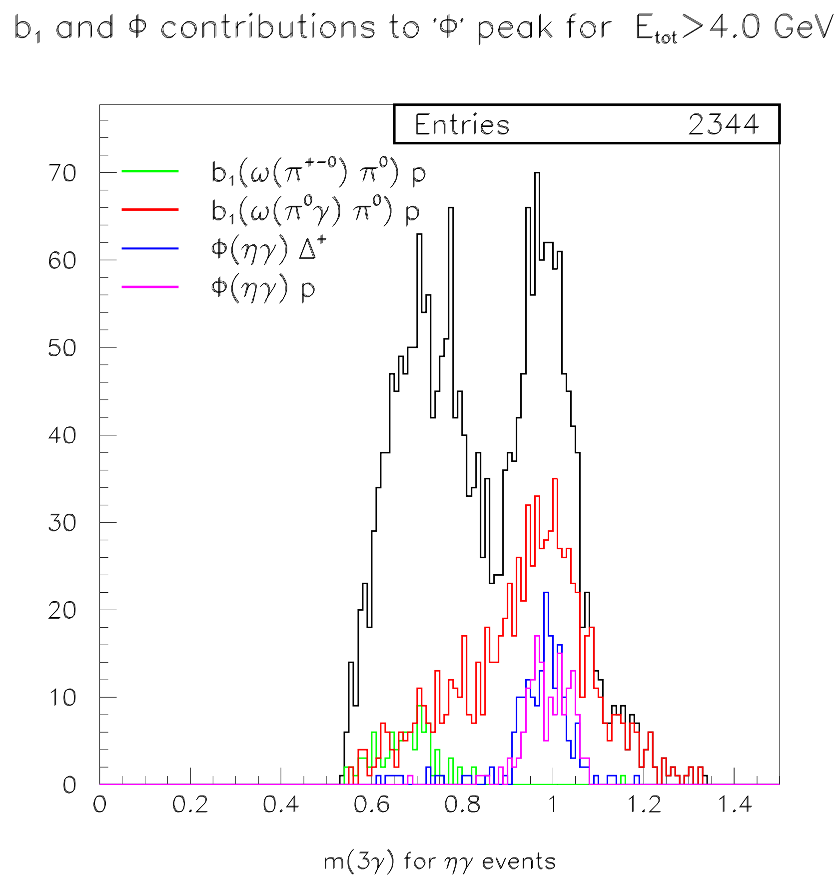
Entries 98649
$E_{tot} > 4.0$ GeV
ω
ρ
a_1
a_2
b_1
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
m(3γ) for $\pi^0\gamma$ events

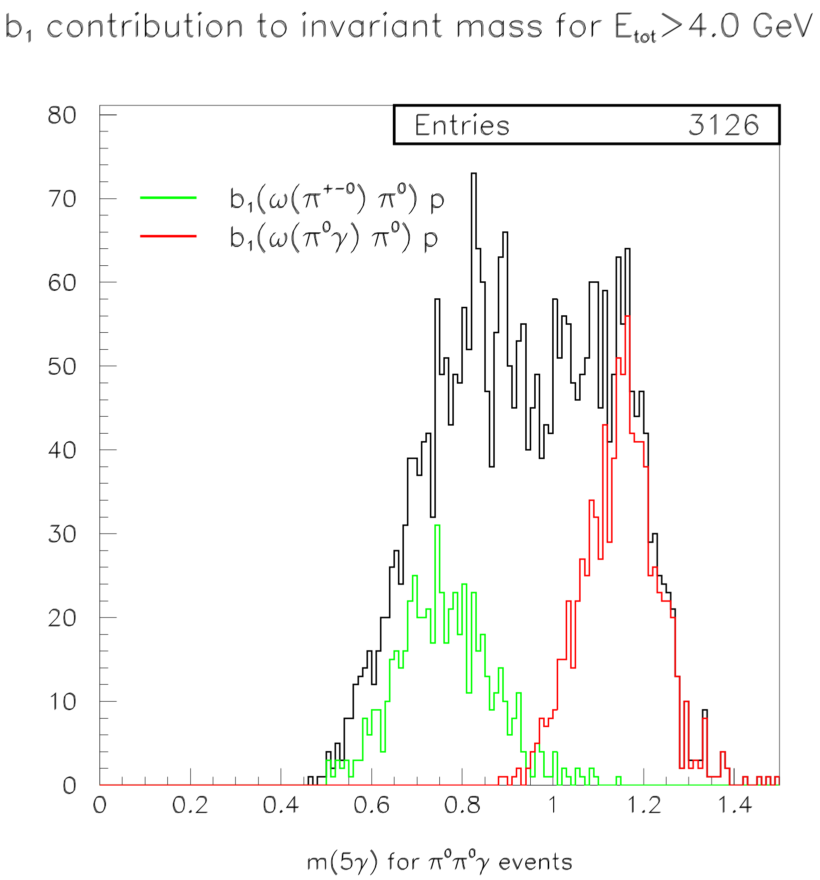

Entries 9529
E_{tot} > 3.0 GeV
φ
η'
ω
a_1
a_2
b_1
0
50
100
150
200
250
300
350
400
0
0.2
0.4
0.6
0.8
1
1.2
1.4
m(3γ) for ηγ events

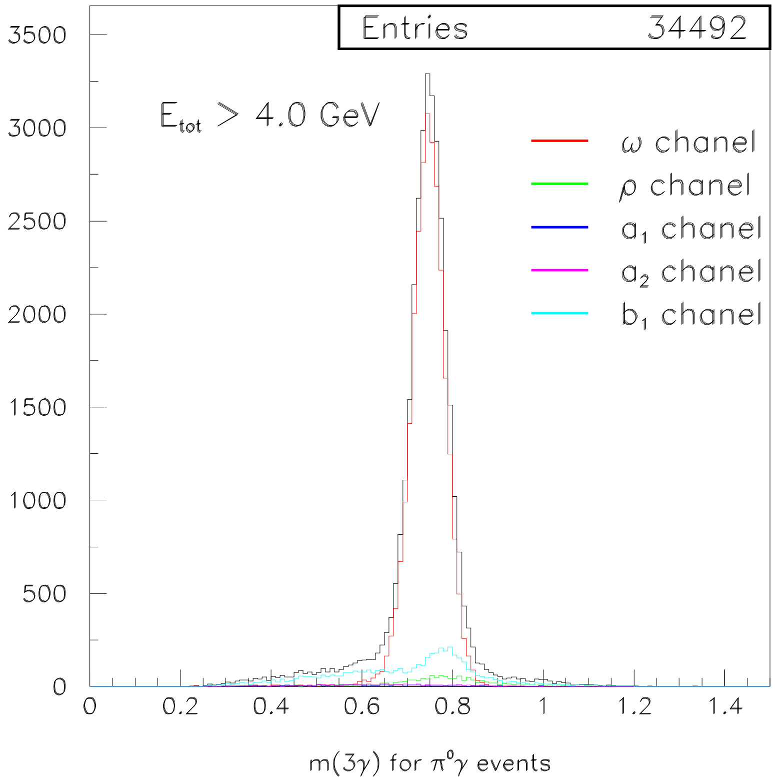

Entries 2344
E_{tot} > 4.0 GeV
φ
η'
ω
a_1
a_2
b_1
0
10
20
30
40
50
60
70
0
0.2
0.4
0.6
0.8
1
1.2
1.4
m(3γ) for ηγ events

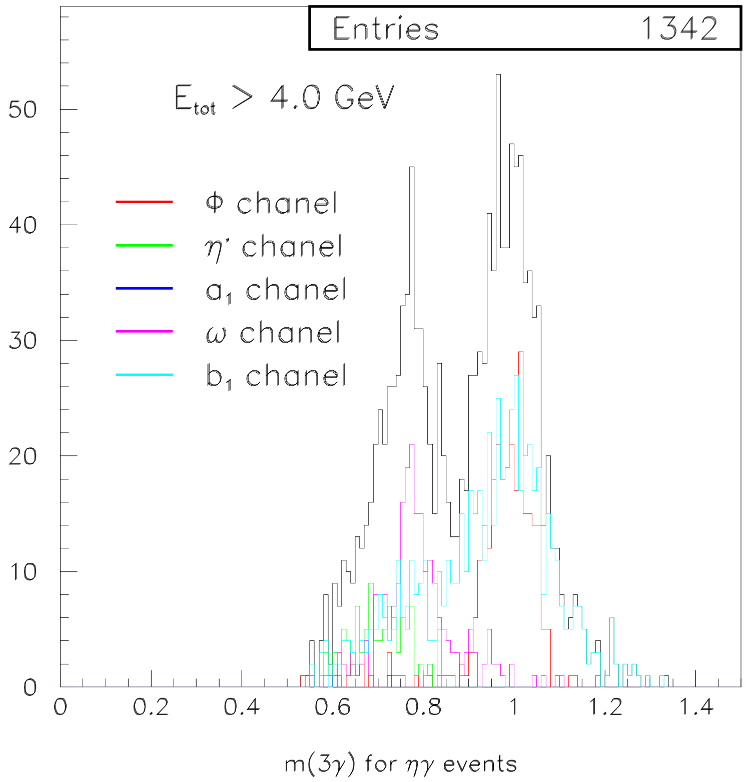

Entries 12496
E_tot > 3.0 GeV
φ
η'
ω
a₁
a₂
b₁
m(5γ) for π⁰π⁰γ events

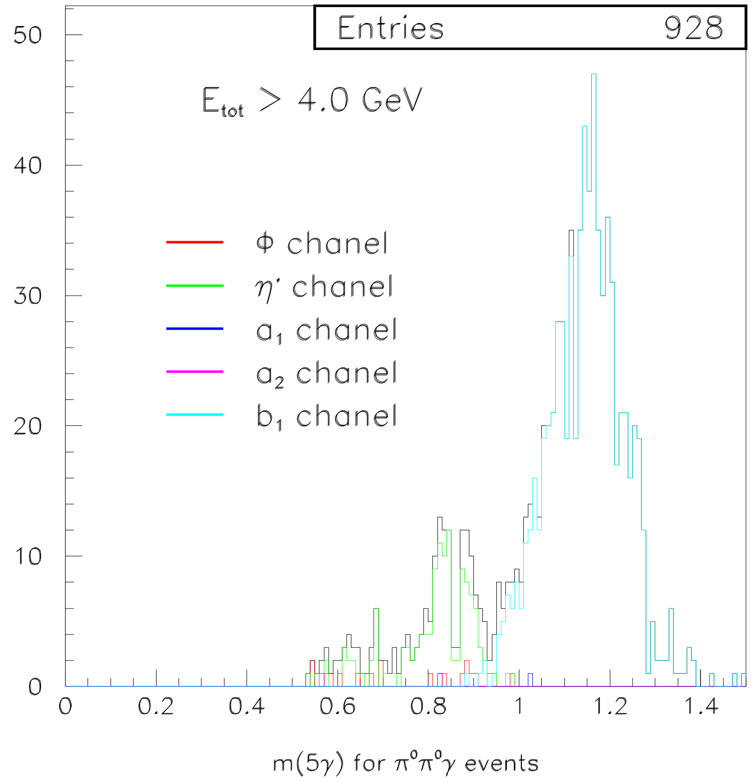

Entries 3126
E_tot > 4.0 GeV
φ
η'
ω
a₁
a₂
b₁
m(5γ) for π⁰π⁰γ events


b$_1$ and Φ contributions to 'Φ' peak for E$_{tot}$>4.0 GeV
Entries 2344
b$_1$(ω(π^{+-0}) π^0) p
b$_1$(ω(π^{0}γ) π^0) p
Φ(ηγ) Δ$^+$
Φ(ηγ) p
m(3γ) for ηγ events

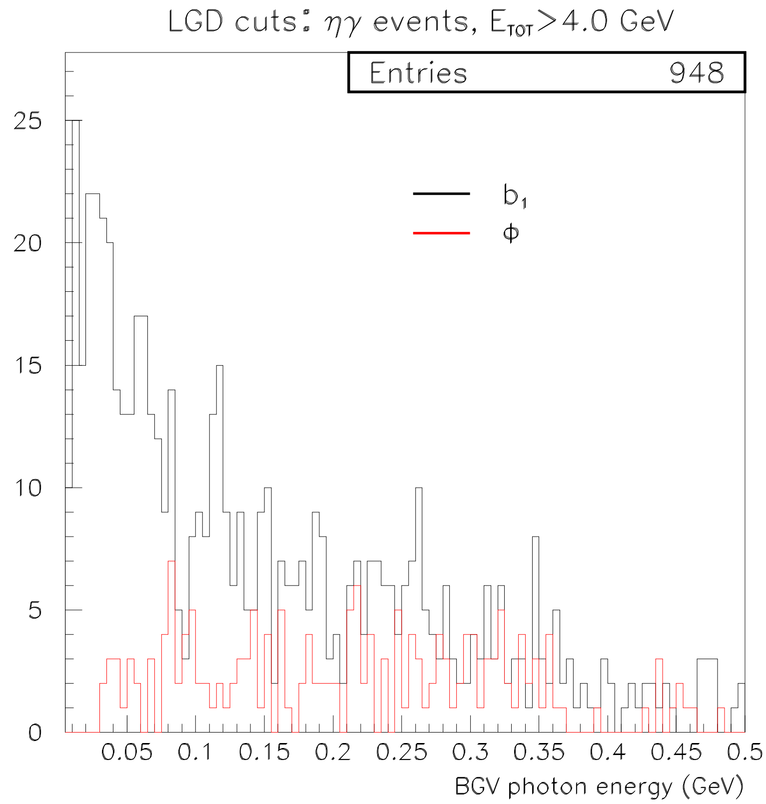

b$_1$ contribution to invariant mass for E$_{tot}$>4.0 GeV
Entries 3126
b$_1$(ω(π^{+-0}) π^0) p
b$_1$(ω(π^{0}γ) π^0) p
m(5γ) for π^{0}π^{0}γ events


Entries 34492
E_{tot} > 4.0 GeV
ω chanel
ρ chanel
a_1 chanel
a_2 chanel
b_1 chanel
3500
3000
2500
2000
1500
1000
500
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
m(3γ) for $\pi^0\gamma$ events

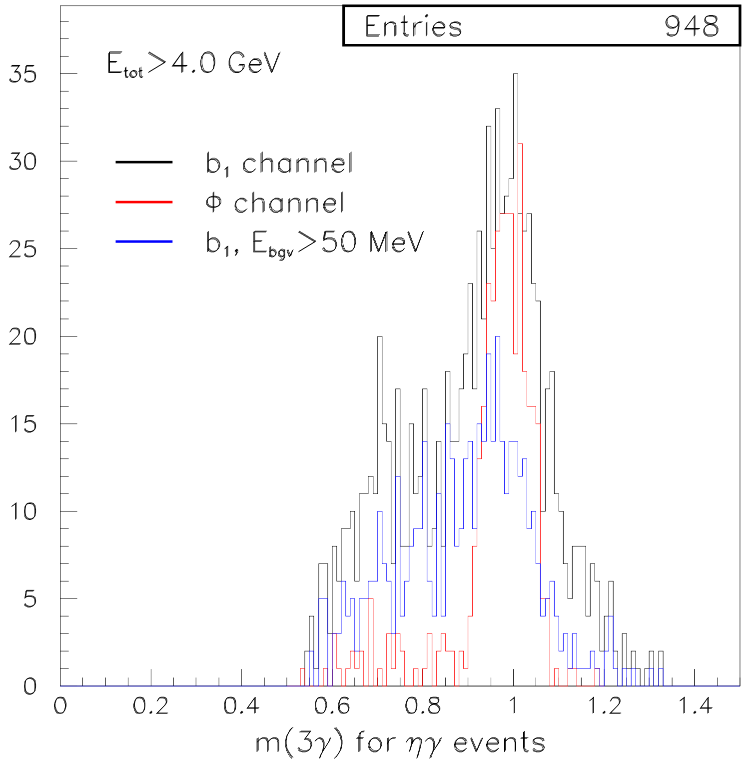

Entries 1342
E_{tot} > 4.0 GeV
Φ chanel
η' chanel
a_1 chanel
ω chanel
b_1 chanel
50
40
30
20
10
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
m(3γ) for ηγ events



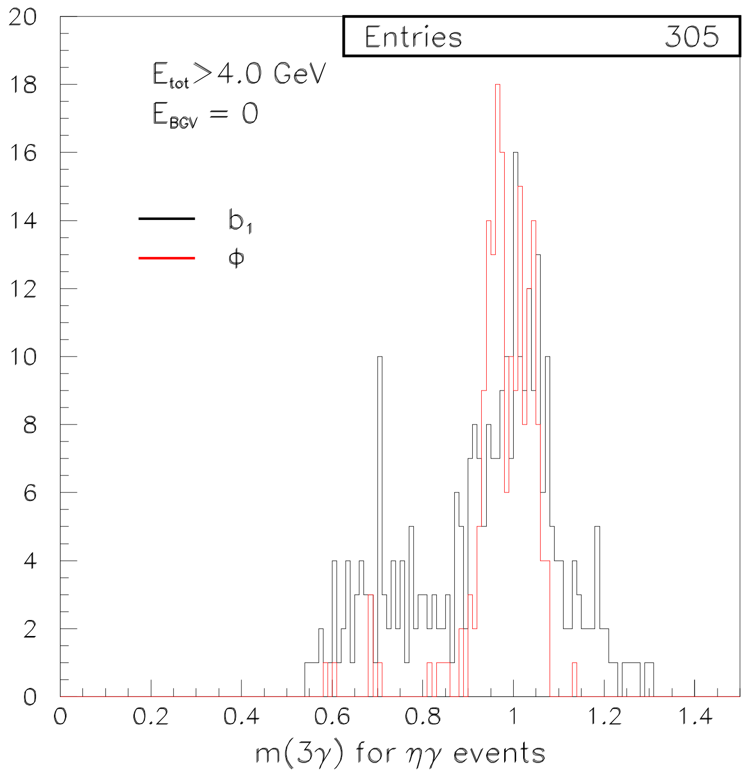
Entries 928
E_{tot} > 4.0 GeV
Φ chanel
η' chanel
a_1 chanel
a_2 chanel
b_1 chanel
m(5γ) for $\pi^0\pi^0\gamma$ events



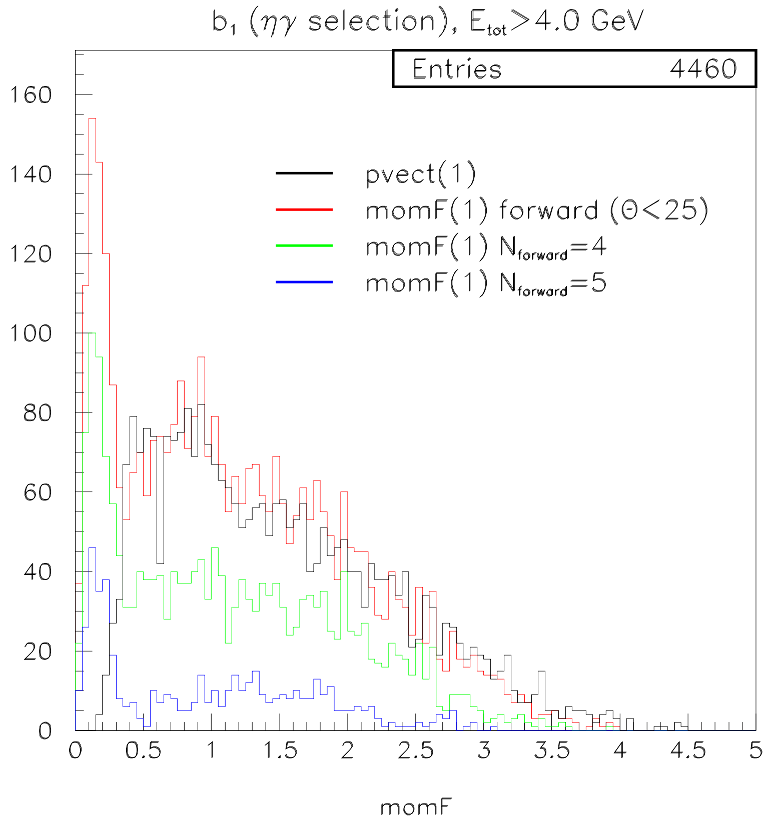
LGD cuts: ηγ events, E_{TOT}>4.0 GeV
Entries 948
b_1
Φ
BGV photon energy (GeV)



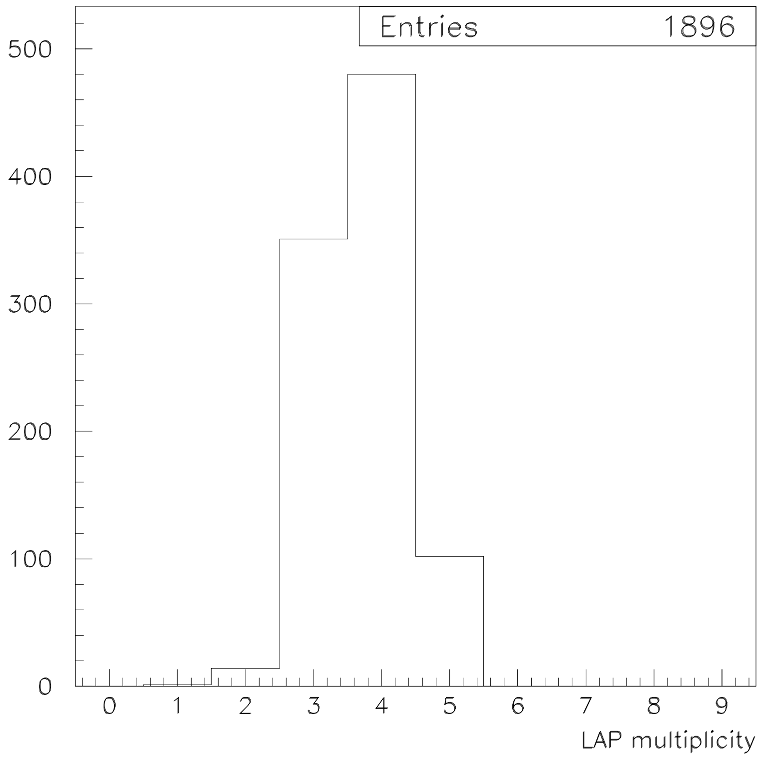
Entries 948
E_{tot}>4.0 GeV
b_1 channel
Φ channel
b_1, E_{bgv}>50 MeV
m(3γ) for ηγ events



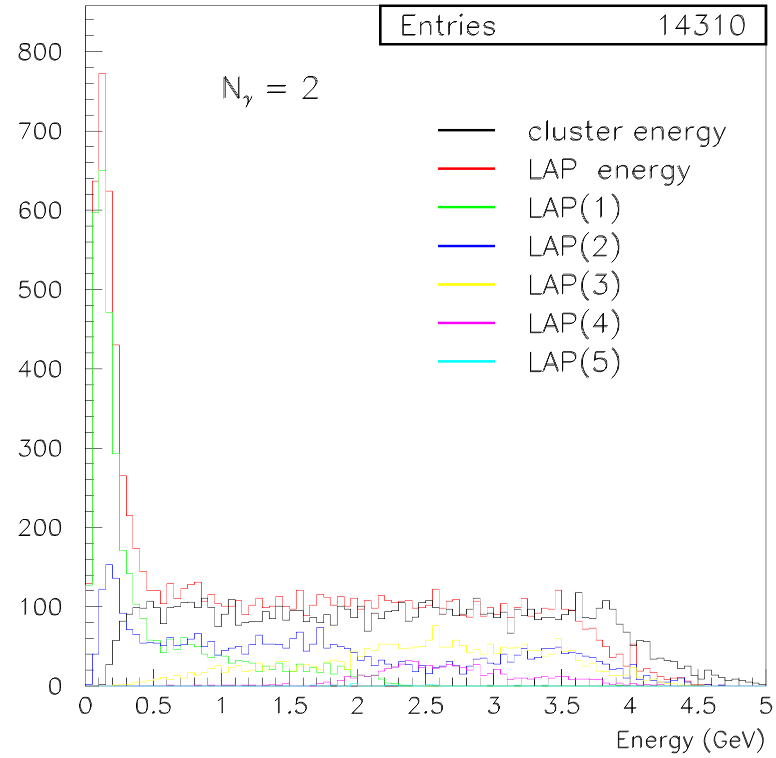
Entries 305
E_{tot}>4.0 GeV
E_{BGV} = 0
b_1
Φ
m(3γ) for ηγ events



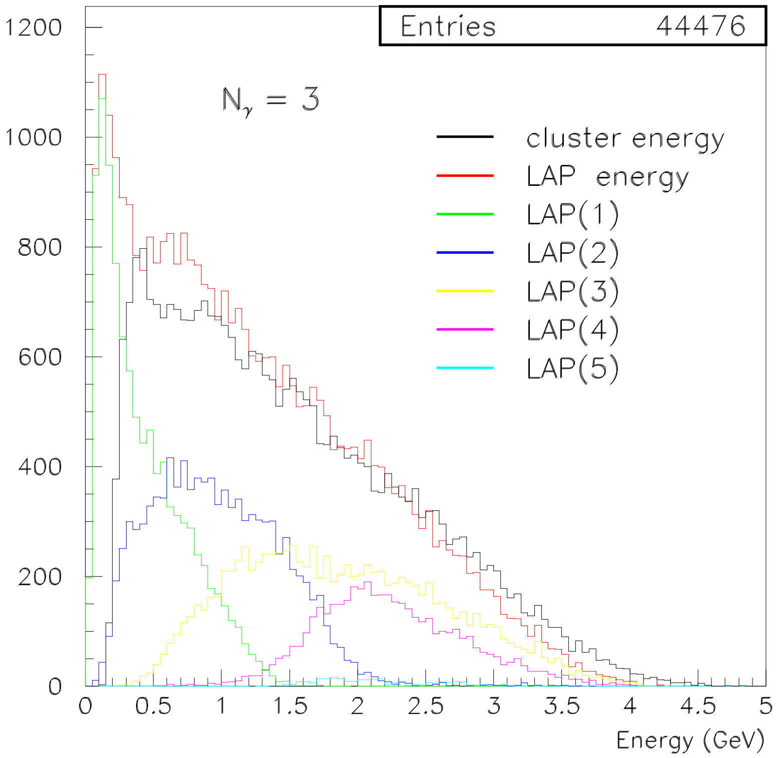
b_1 ($\eta\gamma$ selection), E_{tot}>4.0 GeV
Entries 4460
pvect(1)
momF(1) forward (Θ<25)
momF(1) $N_{forward}$=4
momF(1) $N_{forward}$=5
momF



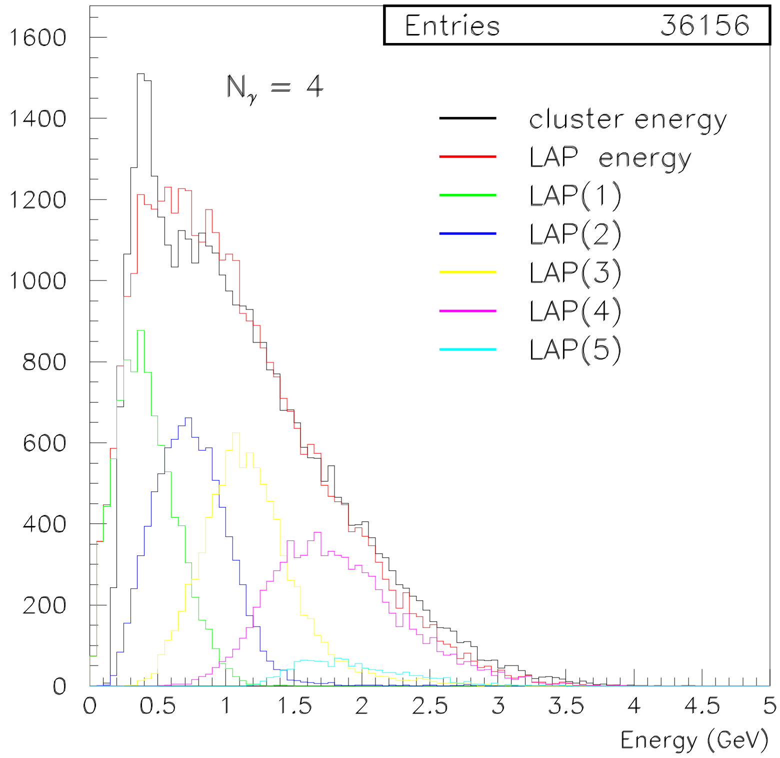
Entries 1896
LAP multiplicity

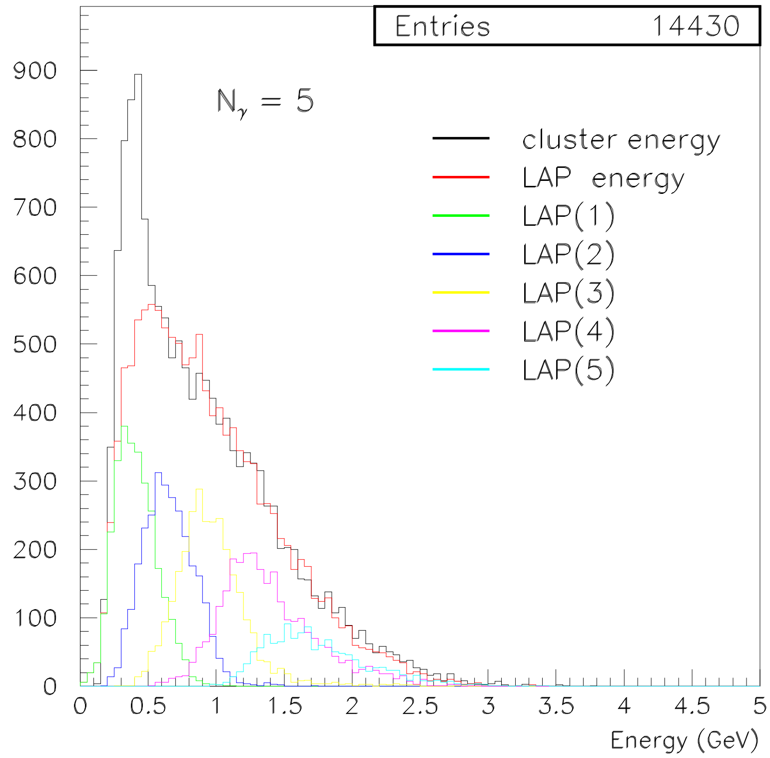


Entries 14310
$N_\gamma = 2$
cluster energy
LAP energy
LAP(1)
LAP(2)
LAP(3)
LAP(4)
LAP(5)
Energy (GeV)



Entries 44476
$N_\gamma = 3$
cluster energy
LAP energy
LAP(1)
LAP(2)
LAP(3)
LAP(4)
LAP(5)
Energy (GeV)


Entries 36156
$N_\gamma = 4$
cluster energy
LAP energy
LAP(1)
LAP(2)
LAP(3)
LAP(4)
LAP(5)
1600
1400
1200
1000
800
600
400
200
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Energy (GeV)


Entries 14430
$N_\gamma = 5$
cluster energy
LAP energy
LAP(1)
LAP(2)
LAP(3)
LAP(4)
LAP(5)
900
800
700
600
500
400
300
200
100
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Energy (GeV)