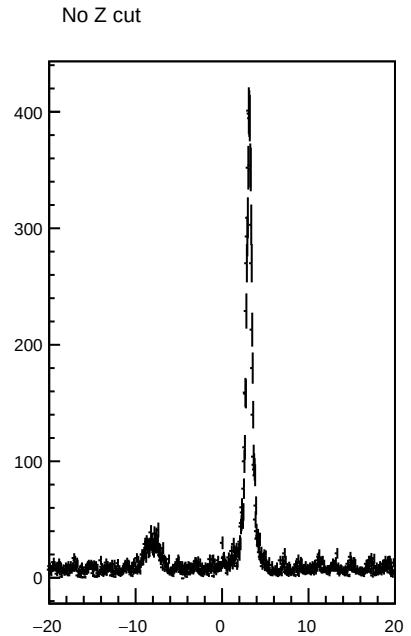
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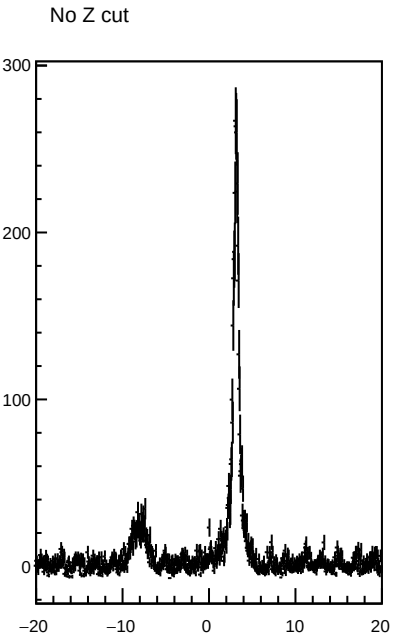
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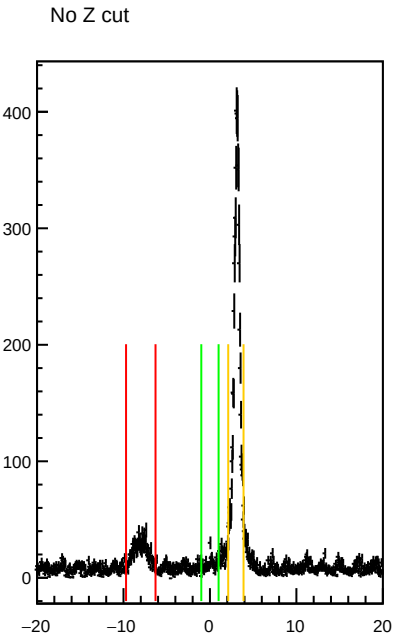
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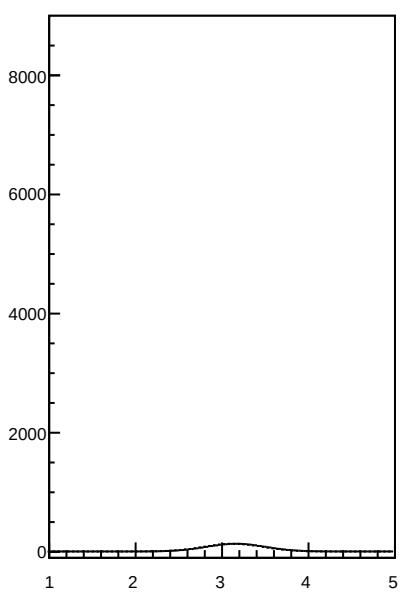
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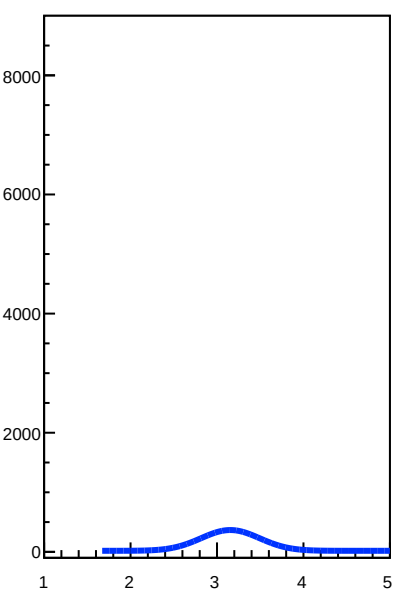
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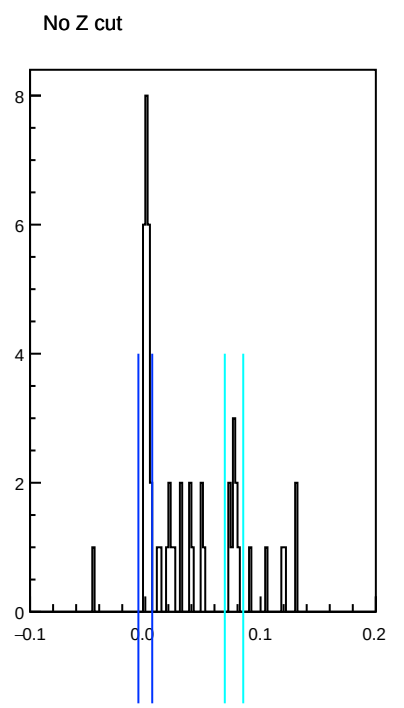
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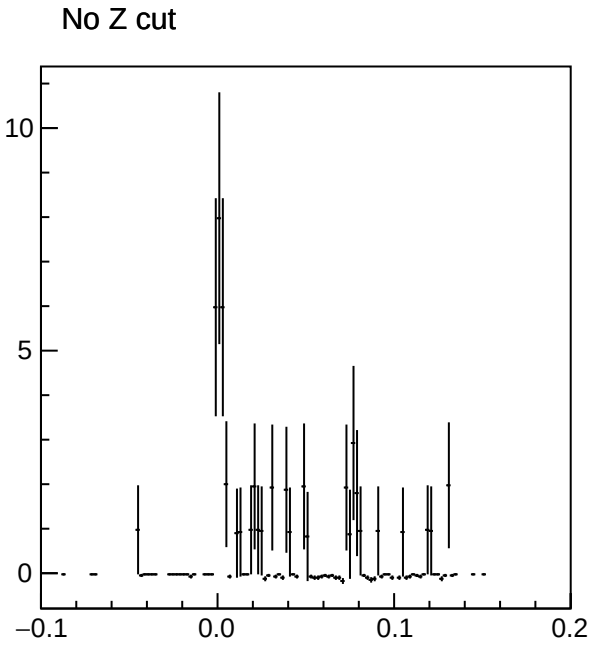
0.2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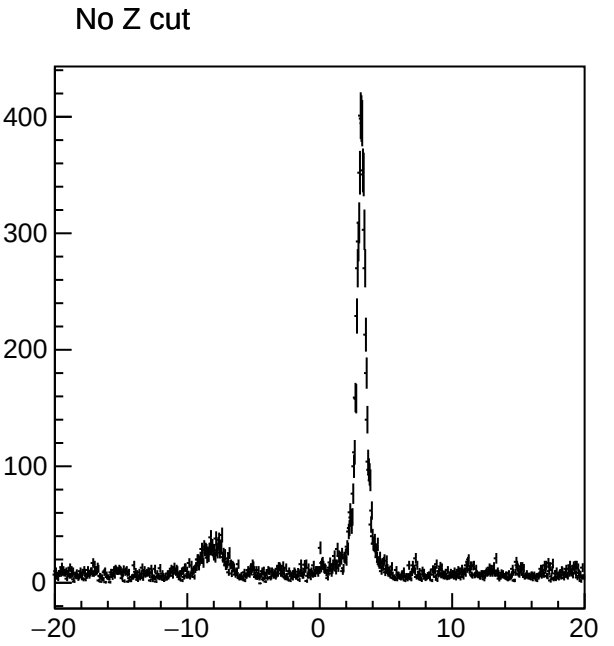
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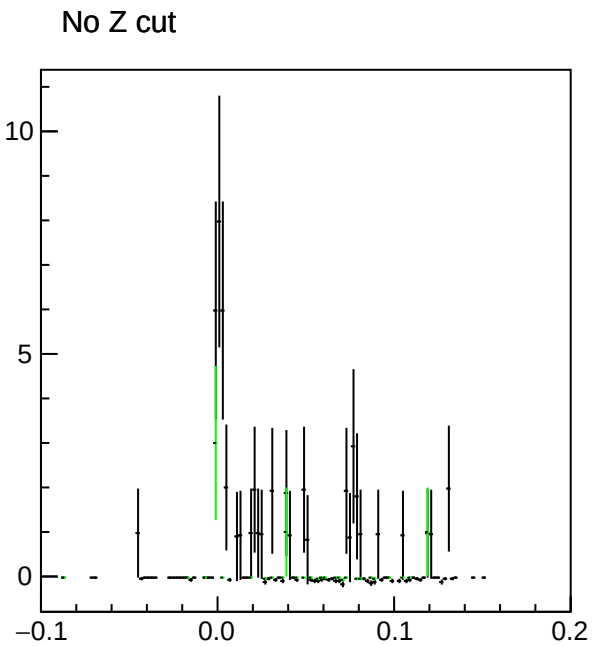
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5
0
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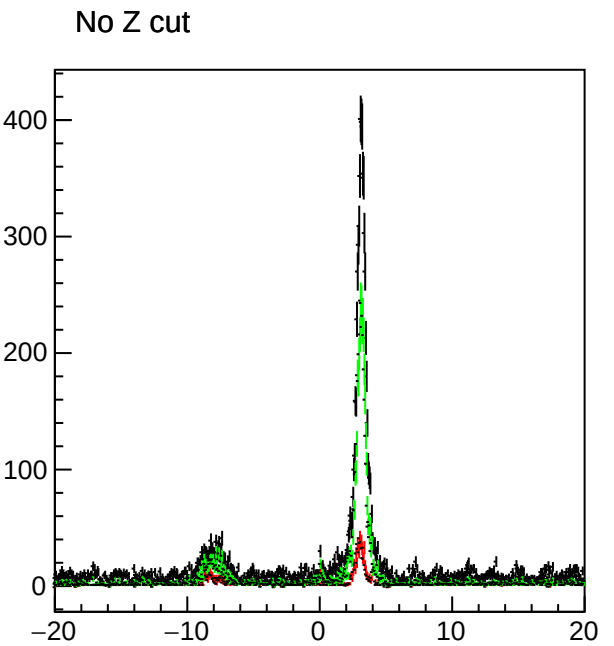
No Z cut
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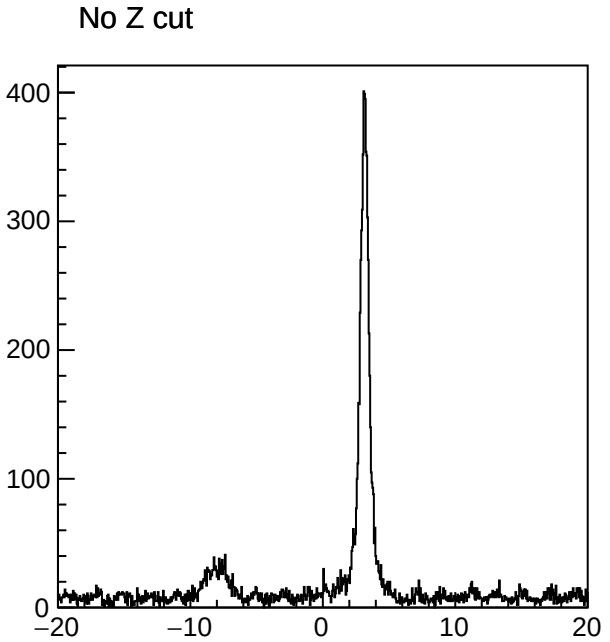
No Z cut
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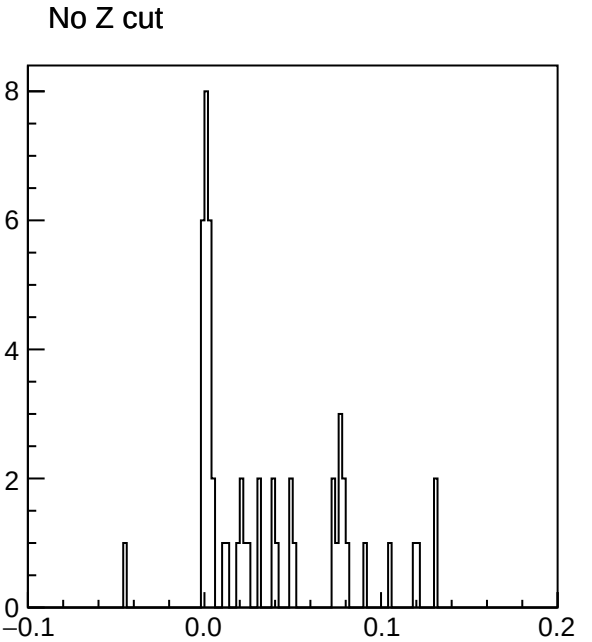
No Z cut
8
6
4
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0
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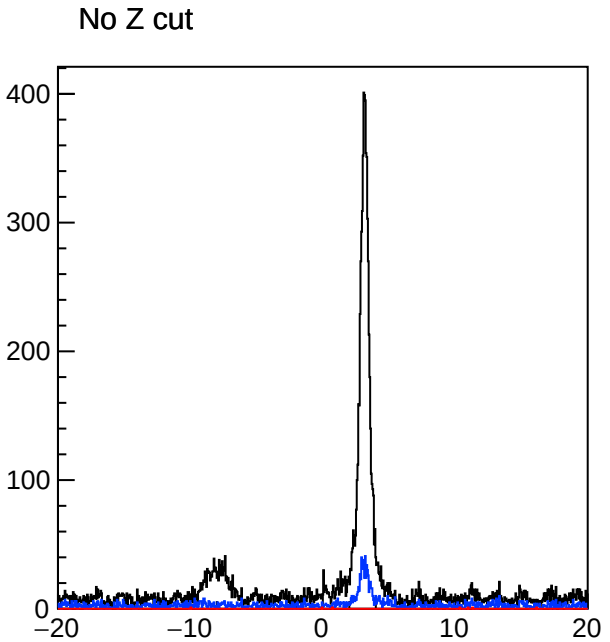
0.1
0.2


No Z cut
400
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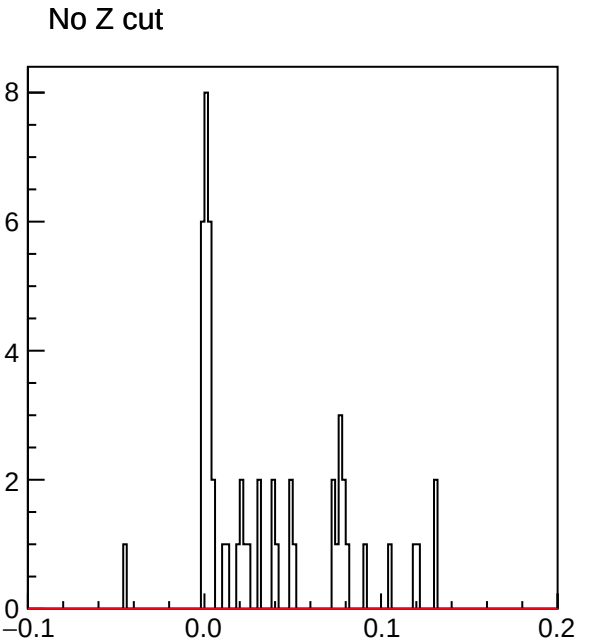
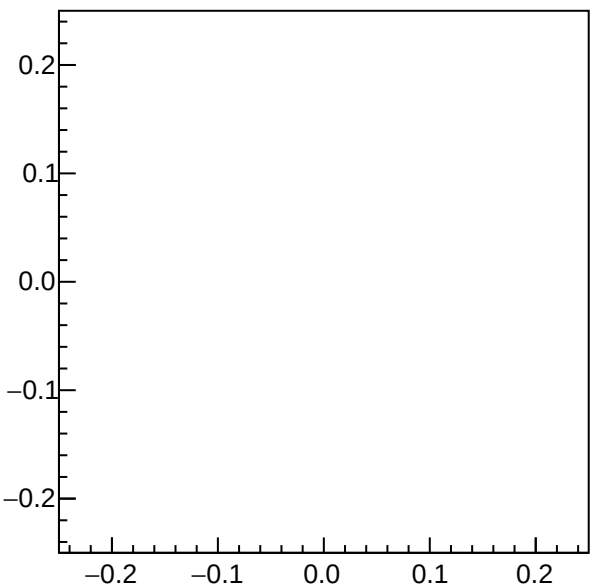
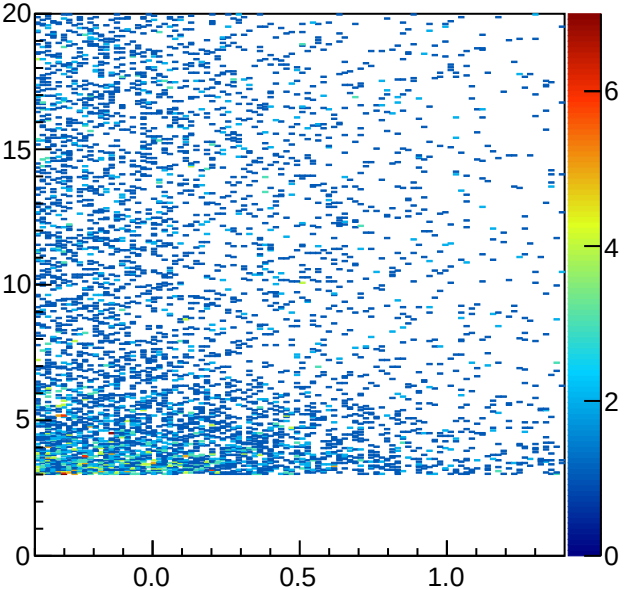
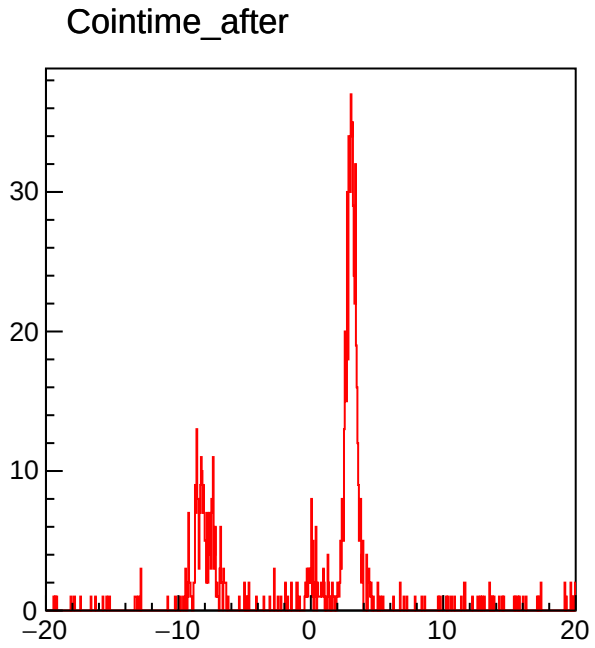

No Z cut
8
6
4
2
0
−0.1
0.0
0.1
0.2

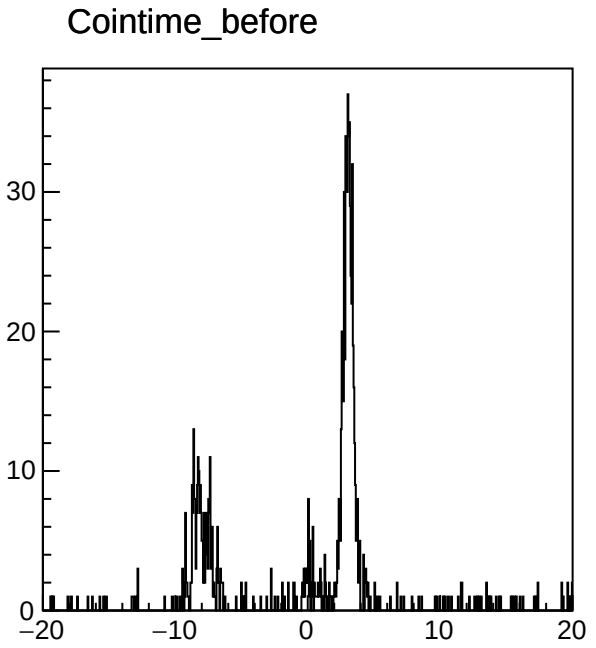
h_zz

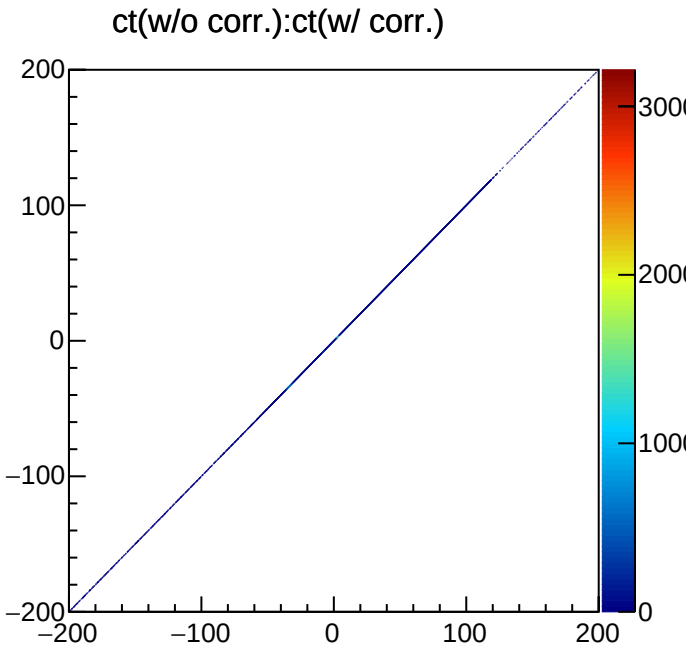


h_m2_ac




Cointime_after
30
20
10
0
−20
−10
0
10
20


Cointime_before
30
20
10
0
−20
−10
0
10
20


ct(w/o corr.):ct(w/ corr.)
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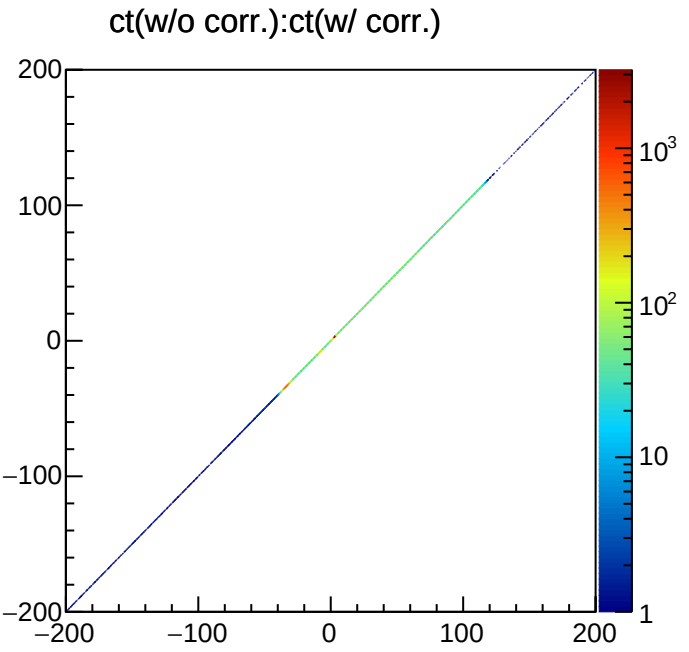
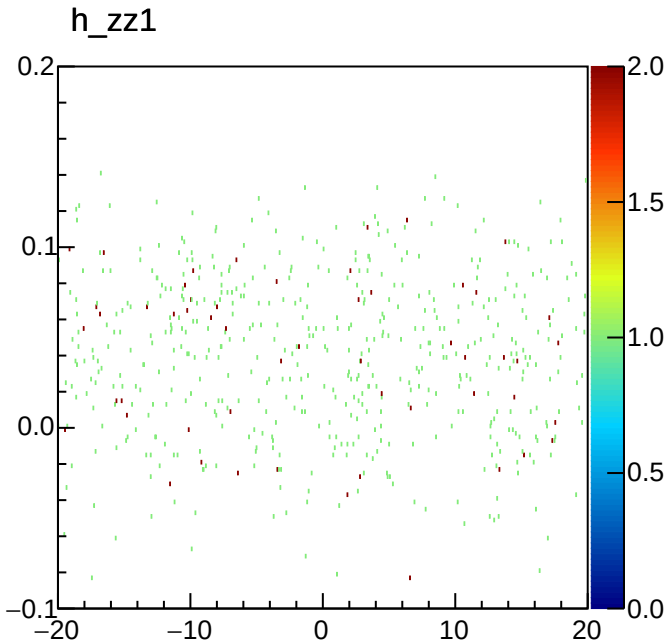
100
0
−100
−200
−200
−100
0
100
200
300
200
100
0


ct(w/o corr.):ct(w/ corr.)
200
100
0
−100
−200
−200
−100
0
100
200
10^3
10^2
10
1


h_zz1
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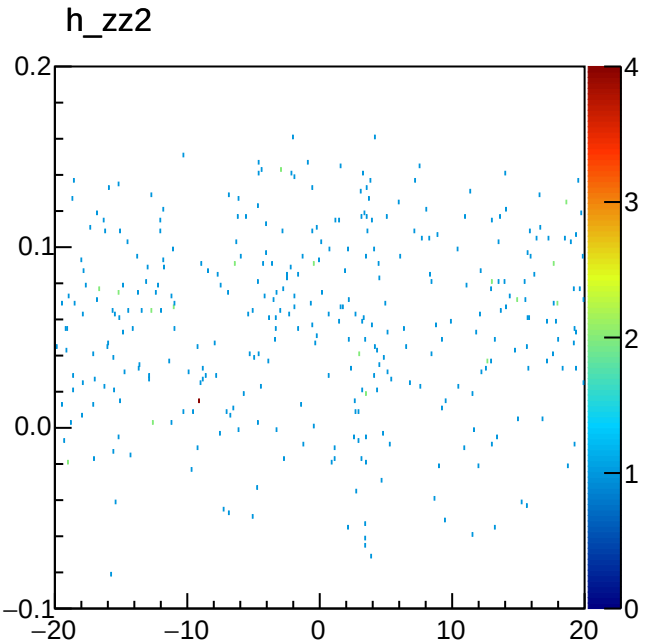
0.1
0.0
−0.1
−20
−10
0
10
20
2.0
1.5
1.0
0.5
0.0


h_zz2
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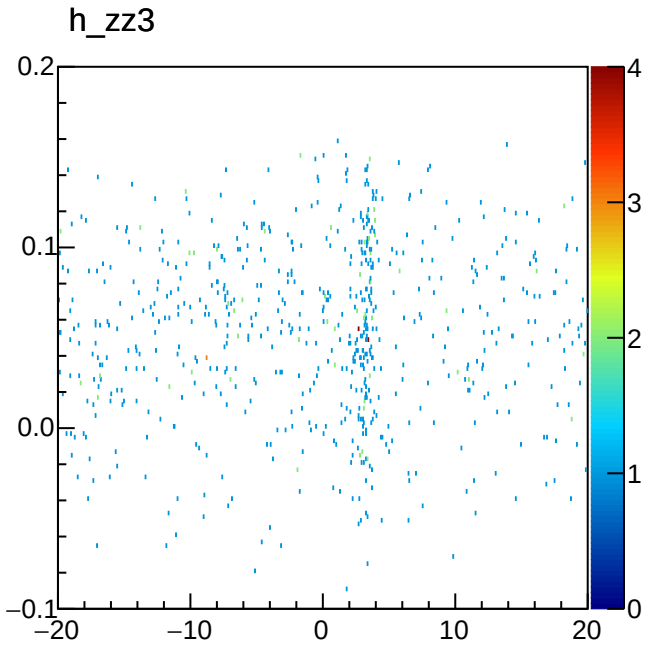
0.1
0.0
−0.1
−20
−10
0
10
20
4
3
2
1
0


h_zz3
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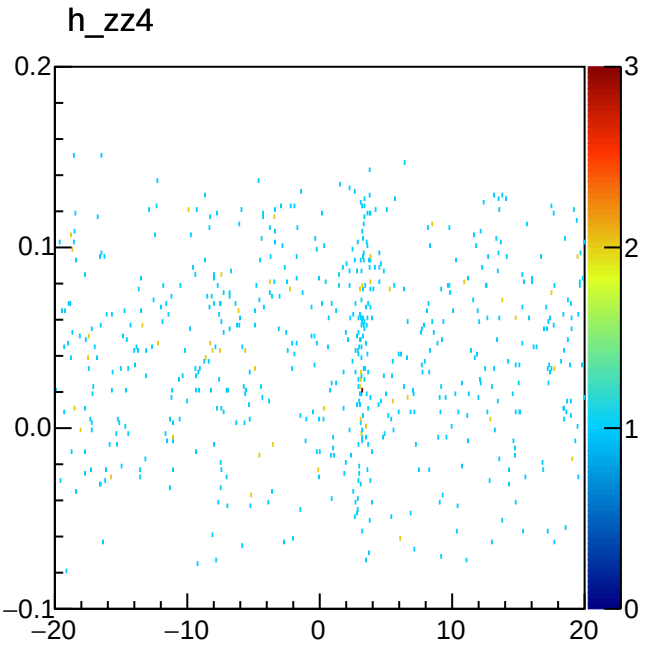
0.1
0.0
−0.1
−20
−10
0
10
20
4
3
2
1
0


h_zz4
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0.1
0.0
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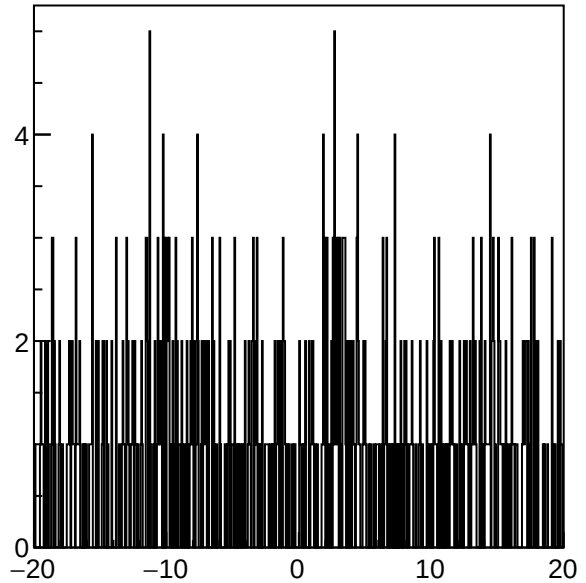
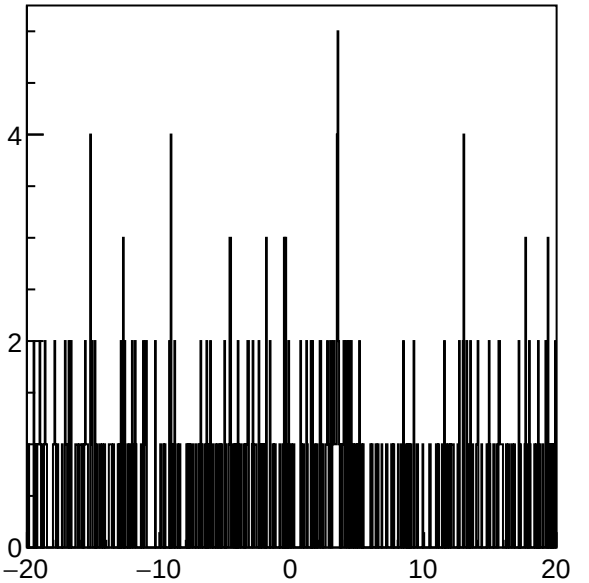
−10
0
10
20
3
2
1
0

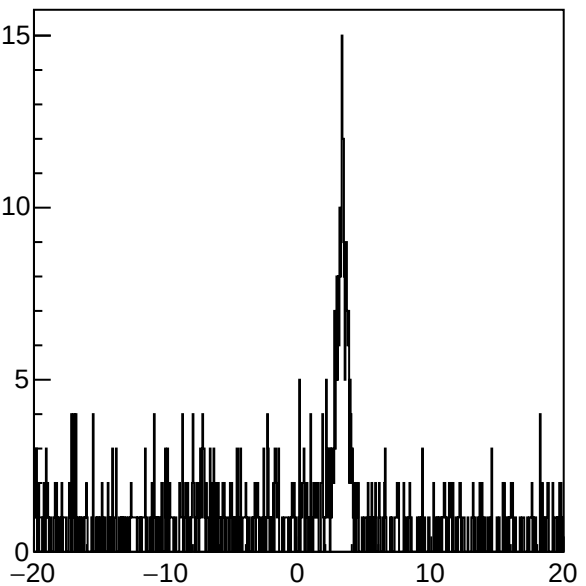
h_z1



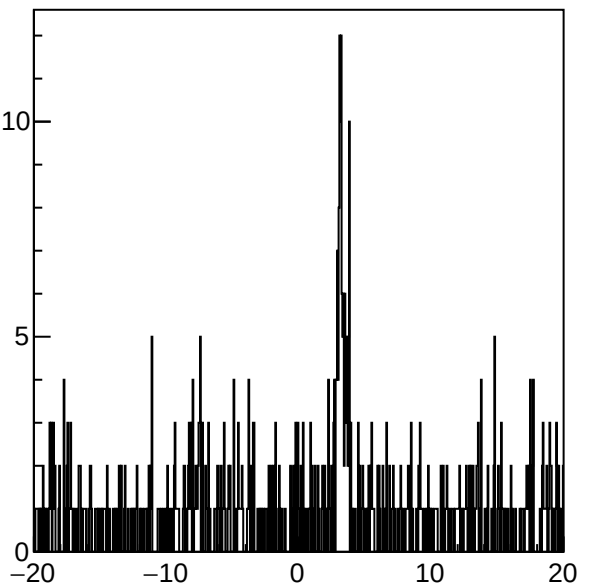
h_z2



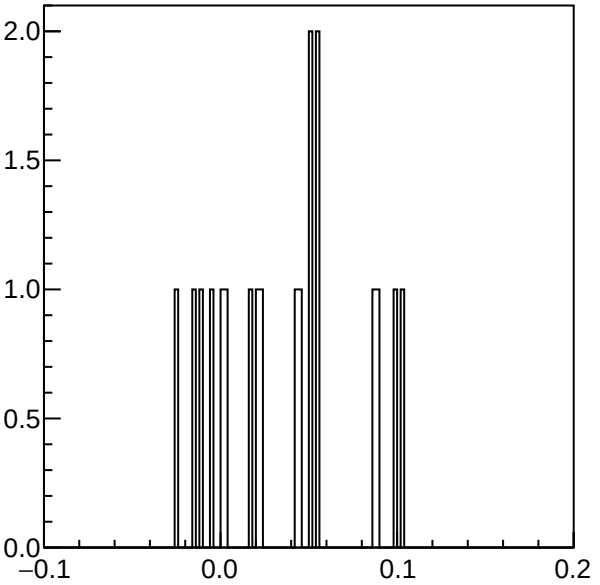
h_z3



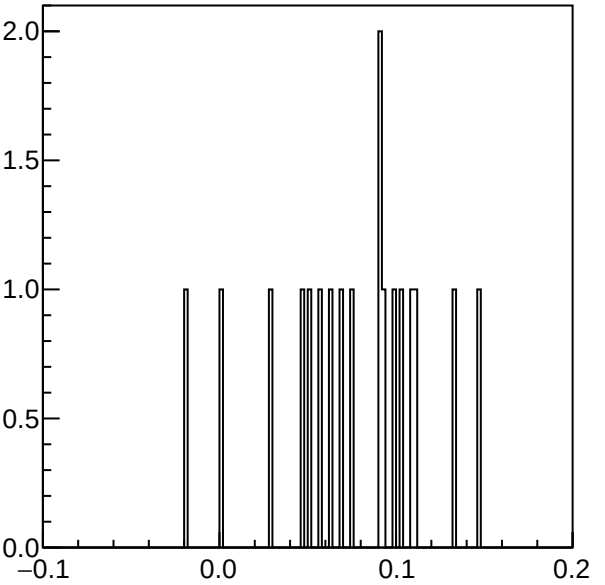
h_z4



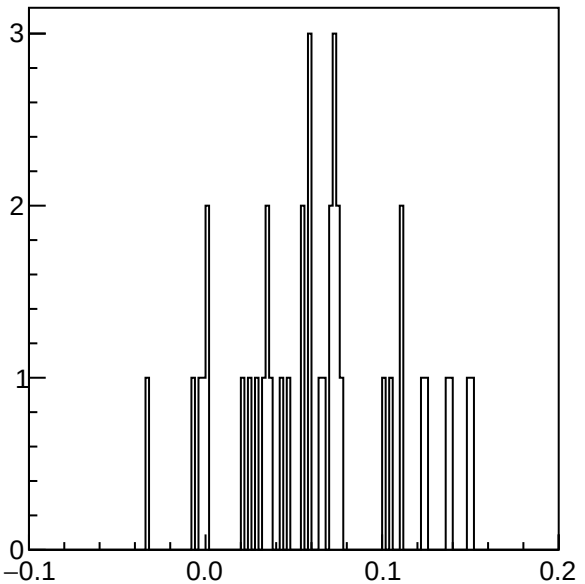
h_z11



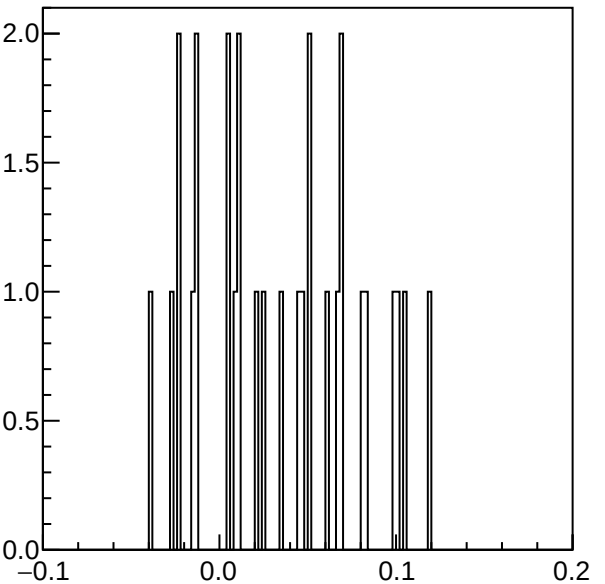
h_z22

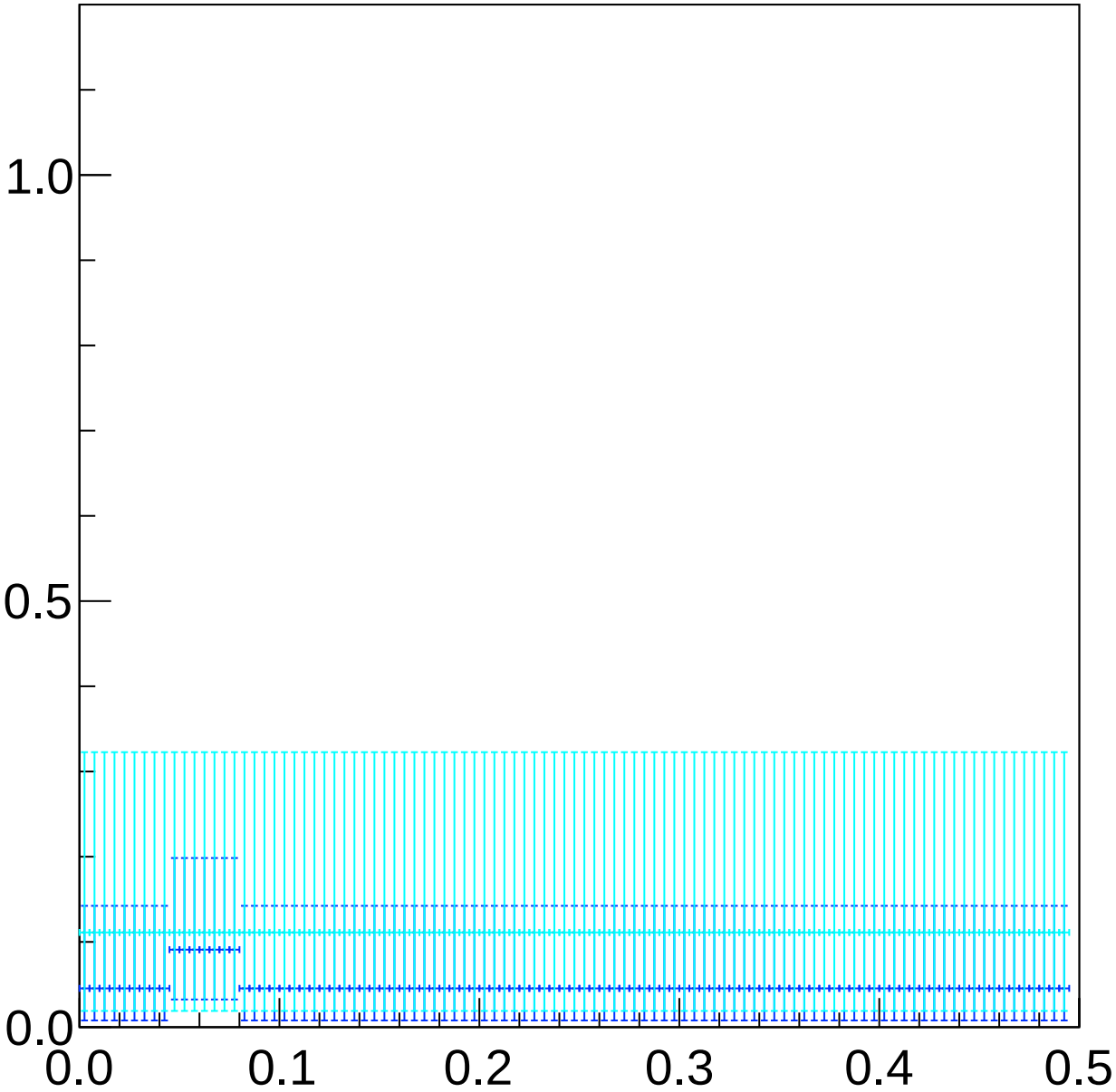


h_z33



h_z44

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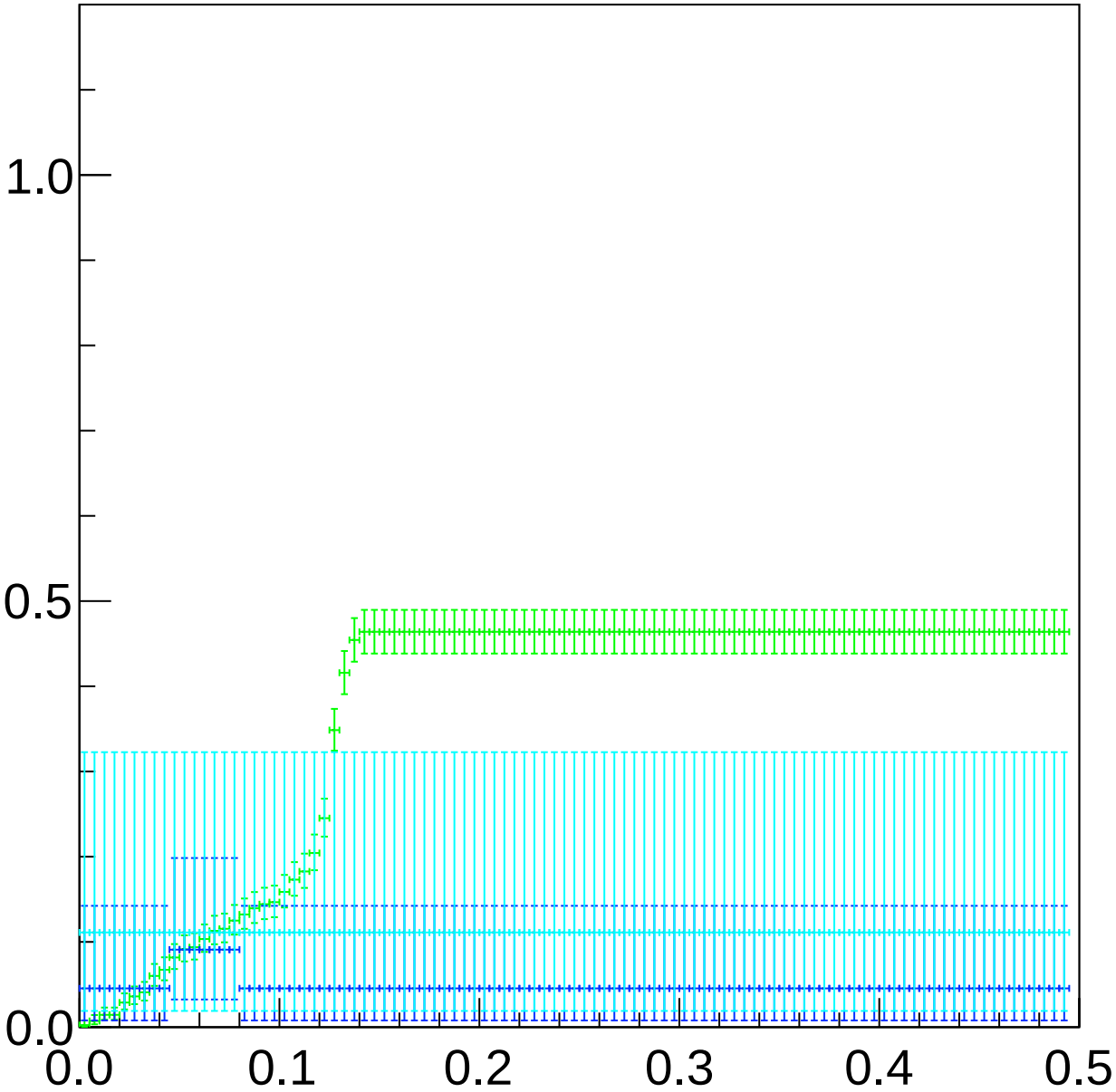
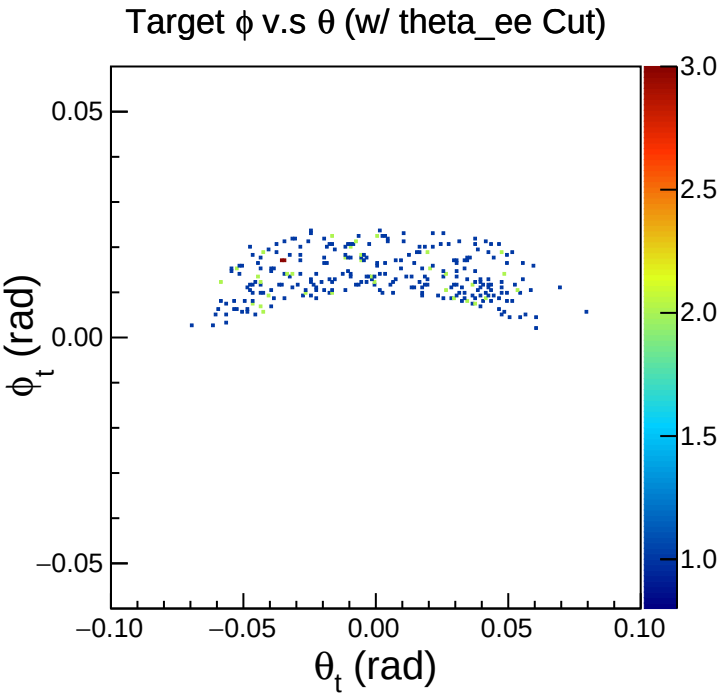
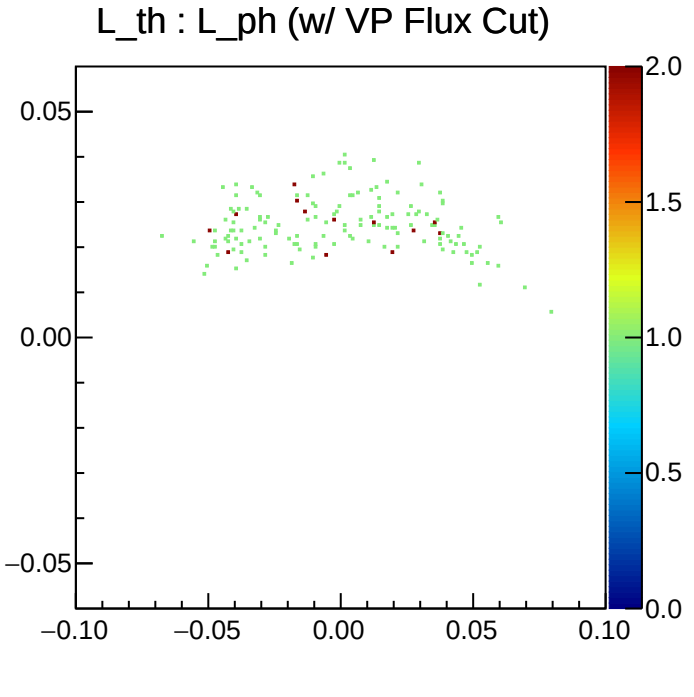
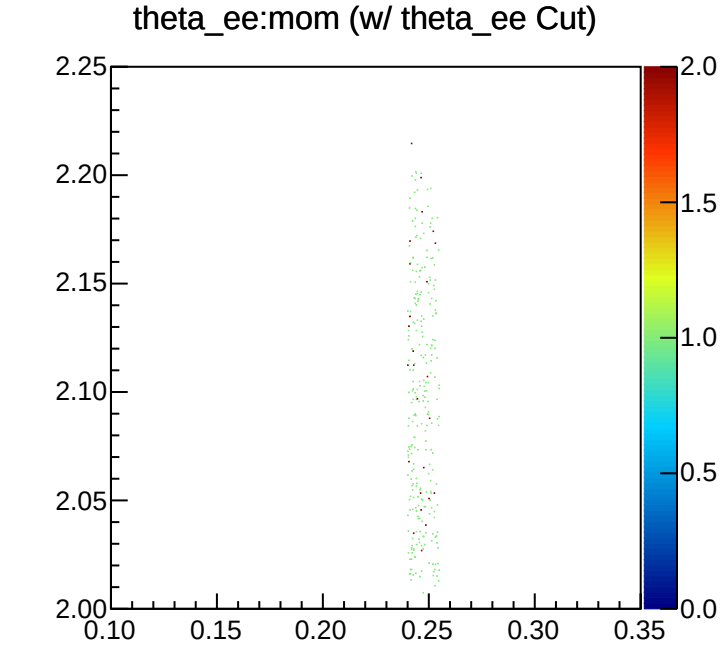
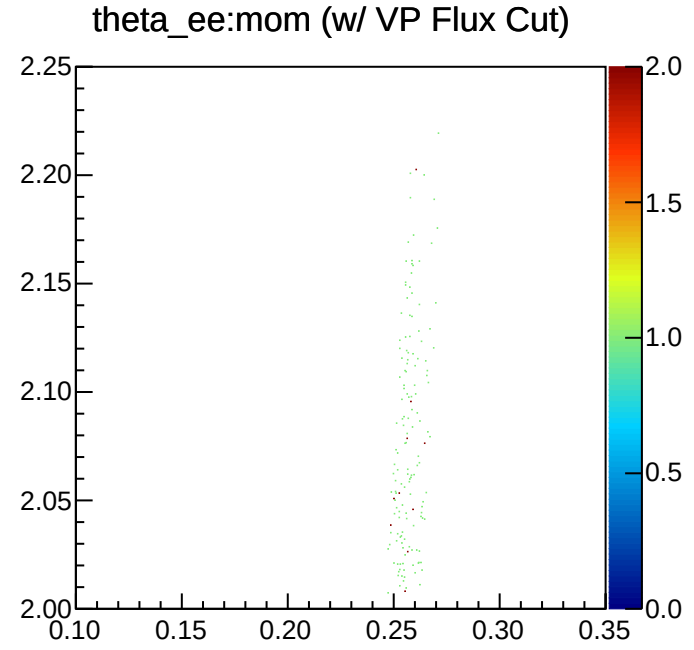
0.0
0.0
0.1
0.2
0.3
0.4
0.5

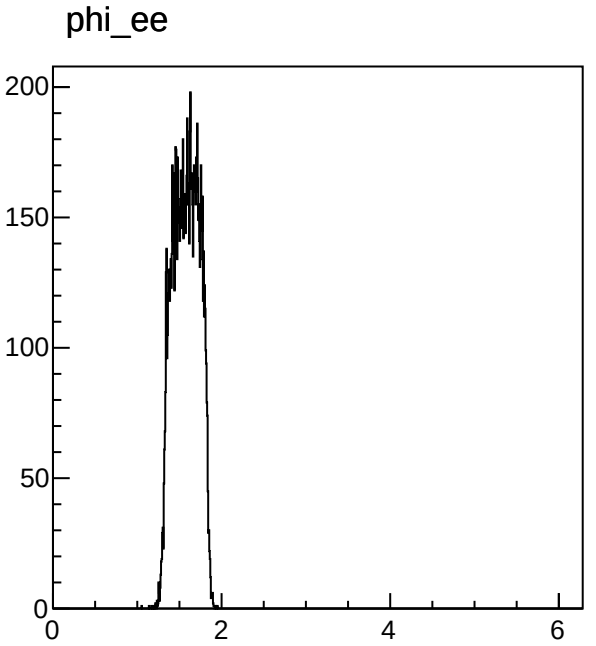

1.0
0.5
0.0
0.0
0.1
0.2
0.3
0.4
0.5

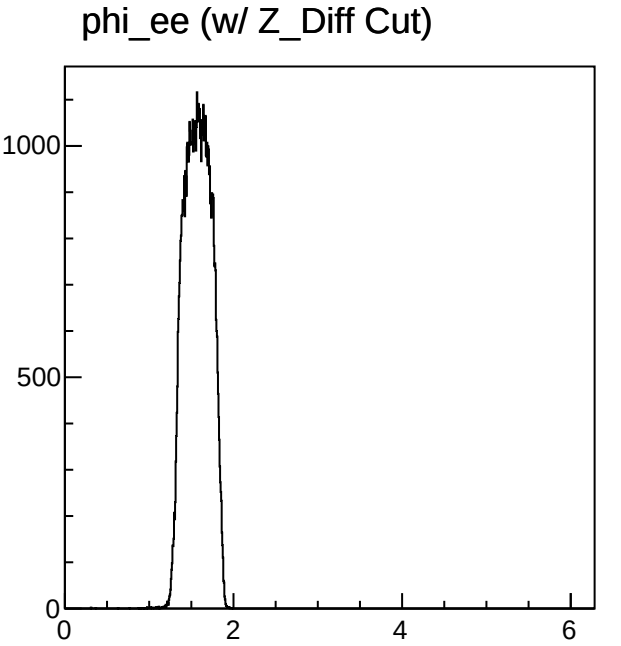

Target ϕ v.s θ (w/ theta_ee Cut)
0.05
0.00
−0.05
ϕ_t (rad)
−0.10
−0.05
0.00
0.05
0.10
θ_t (rad)
3.0
2.5
2.0
1.5
1.0

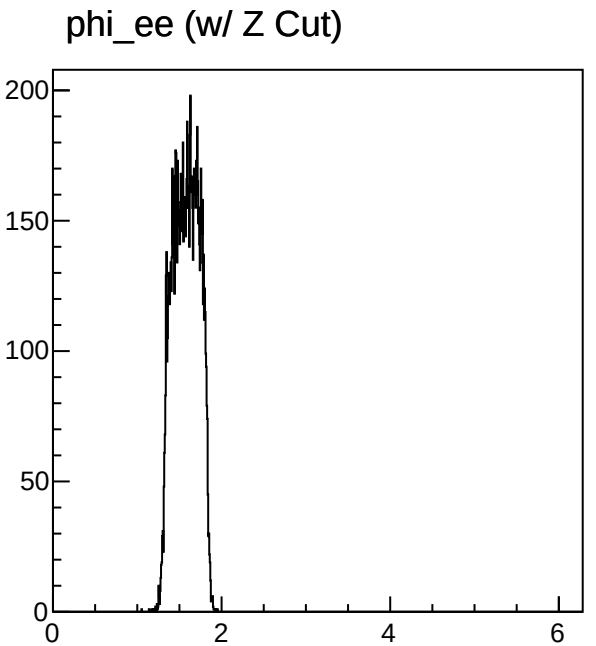

L_th : L_ph (w/ VP Flux Cut)
0.05
0.00
−0.05
−0.10
−0.05
0.00
0.05
0.10
2.0
1.5
1.0
0.5
0.0

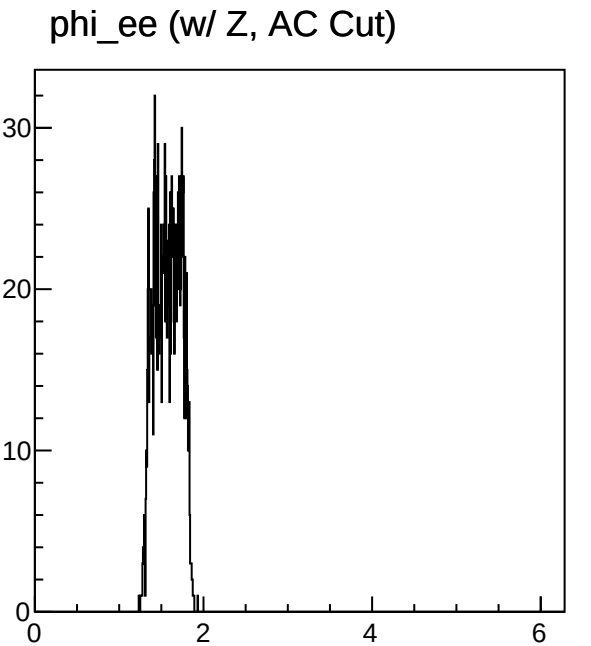

theta_ee:mom (w/ theta_ee Cut)
2.25
2.20
2.15
2.10
2.05
2.00
0.10
0.15
0.20
0.25
0.30
0.35
2.0
1.5
1.0
0.5
0.0


theta_ee:mom (w/ VP Flux Cut)
2.25
2.20
2.15
2.10
2.05
2.00
0.10
0.15
0.20
0.25
0.30
0.35
2.0
1.5
1.0
0.5
0.0

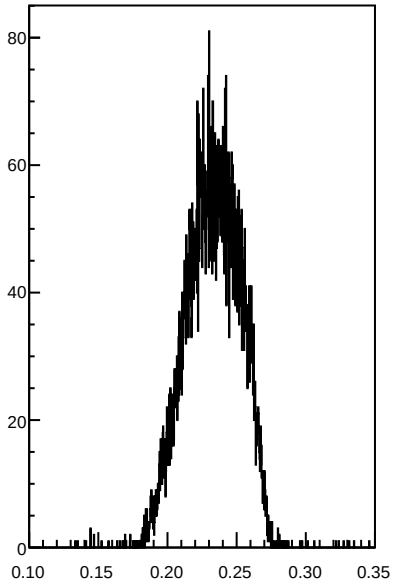

phi_ee
200
150
100
50
0
0
2
4
6


phi_ee (w/ Z_Diff Cut)
1000
500
0
0
2
4
6

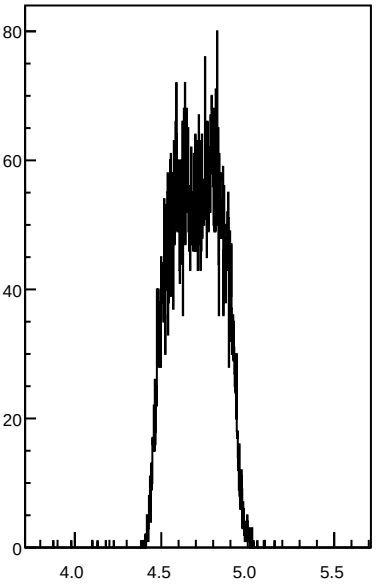

phi_ee (w/ Z Cut)
200
150
100
50
0
0
2
4
6


phi_ee (w/ Z, AC Cut)
30
20
10
0
0
2
4
6

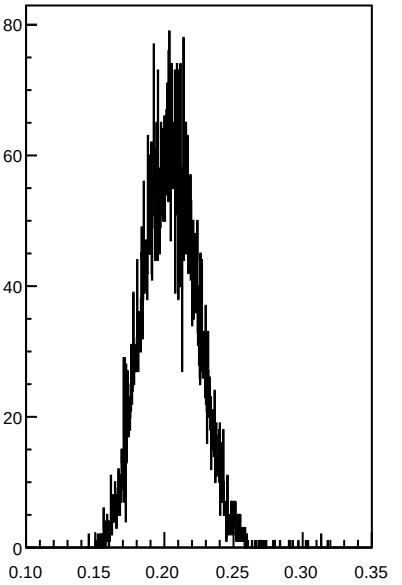
theta_ek



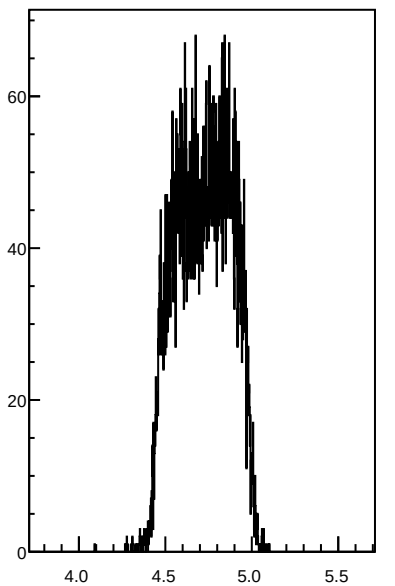
phi_ek



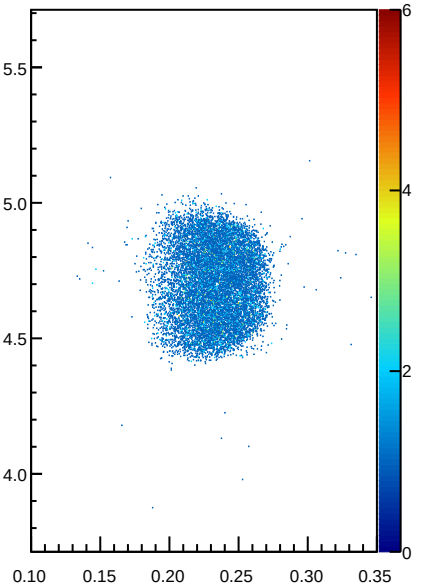
theta_g



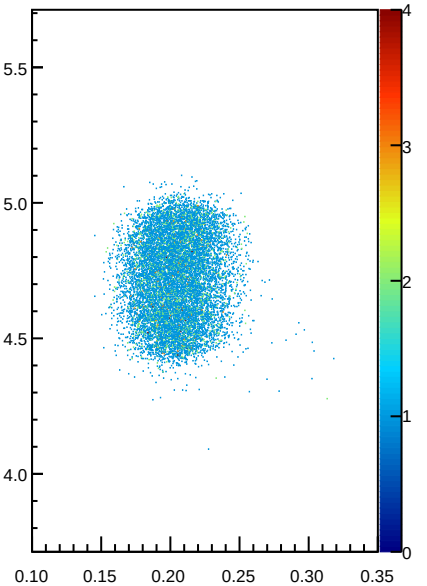
phi_g



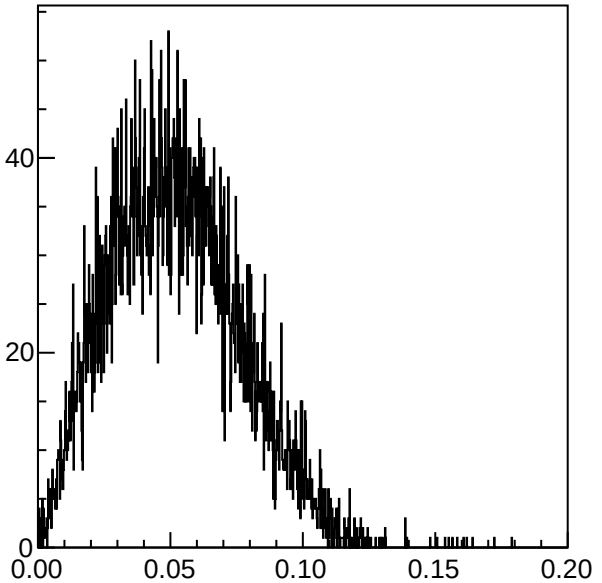
theta_ek:phi_ek



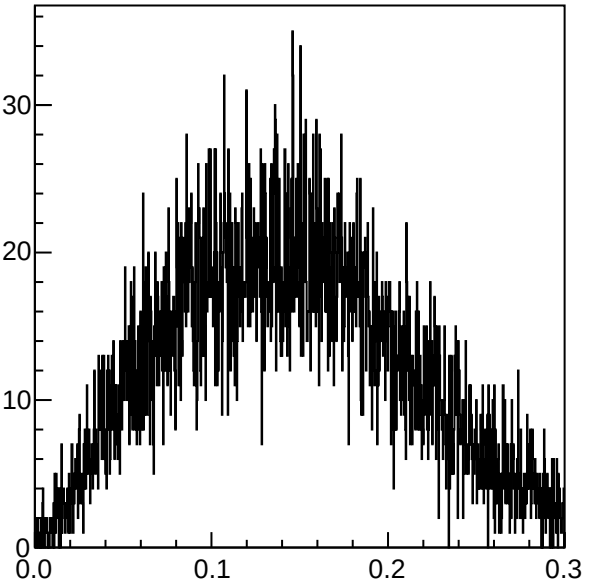
theta_g:phi_g



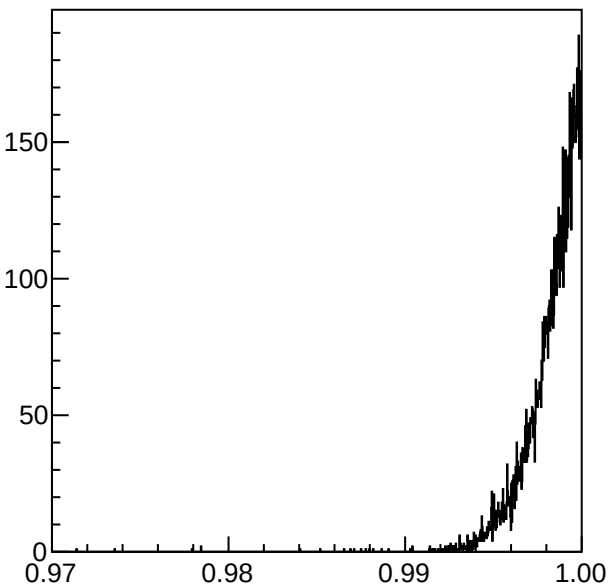
theta_gk_lab



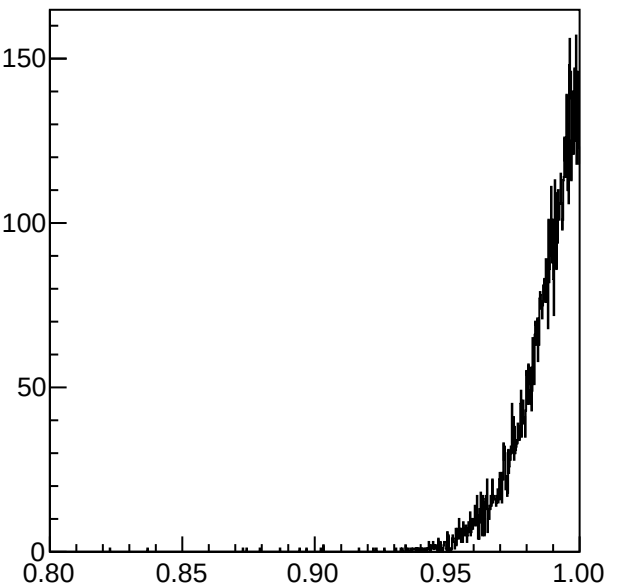
theta_gk_cm

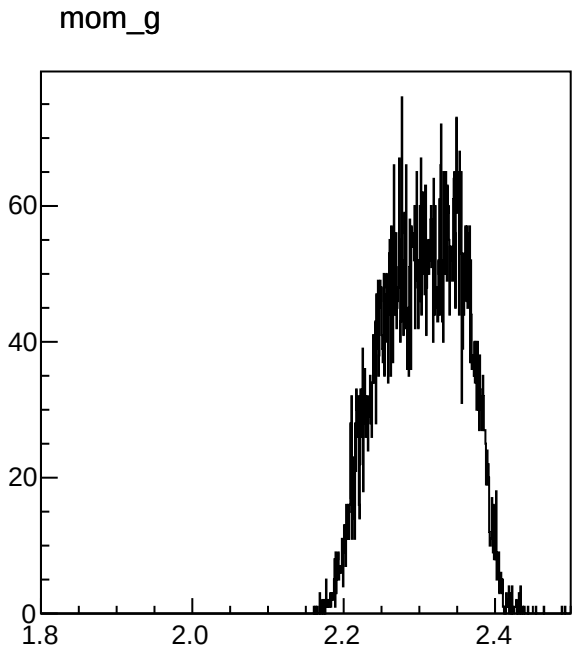


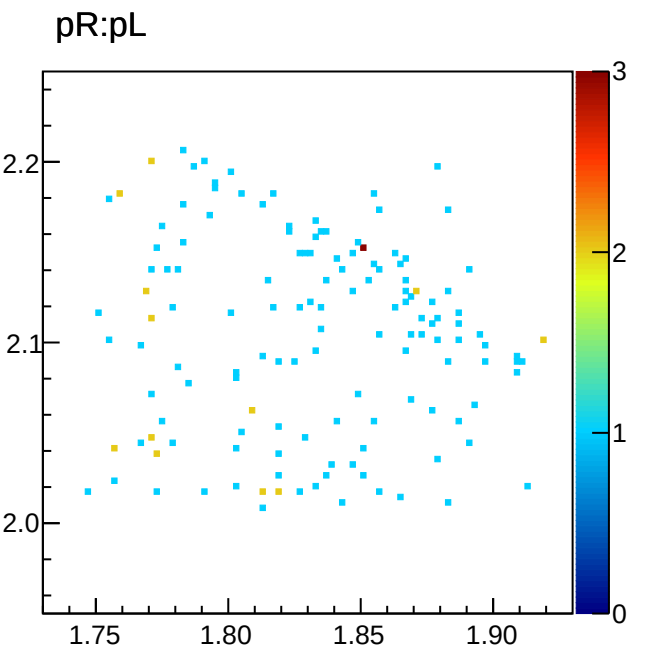
cos_gk_lab

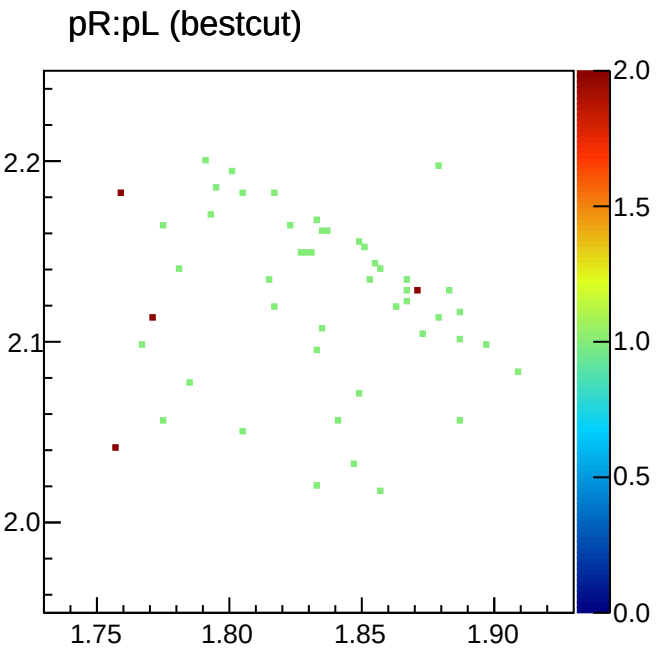


cos_gk_cm

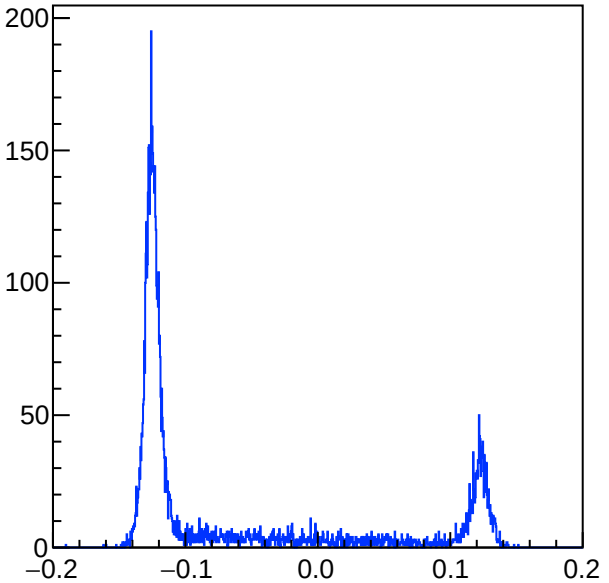



mom_g
60
40
20
0
1.8
2.0
2.2
2.4

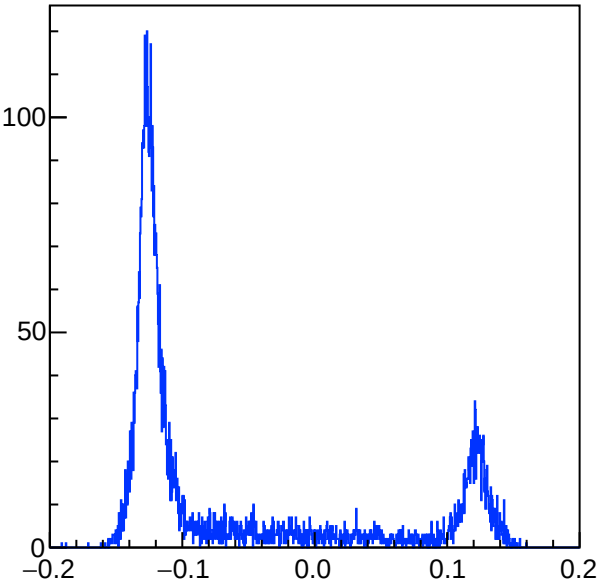

pR:pL
2.2
2.1
2.0
1.75
1.80
1.85
1.90
3
2
1
0


pR:pL (bestcut)
2.2
2.1
2.0
1.75
1.80
1.85
1.90
2.0
1.5
1.0
0.5
0.0

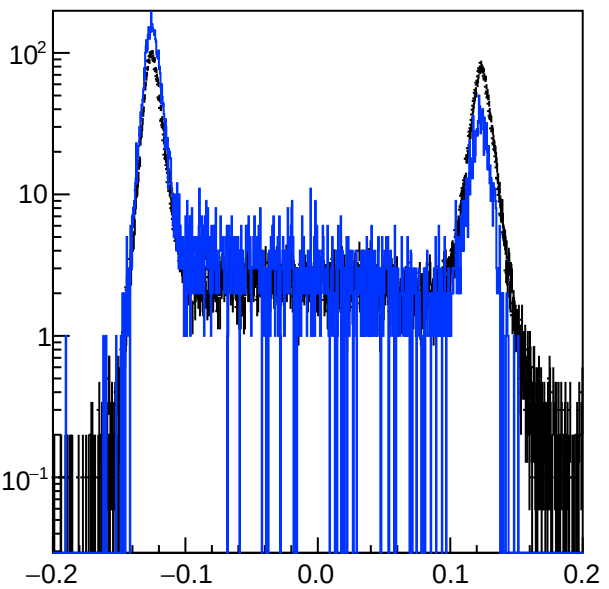
h_Lz2



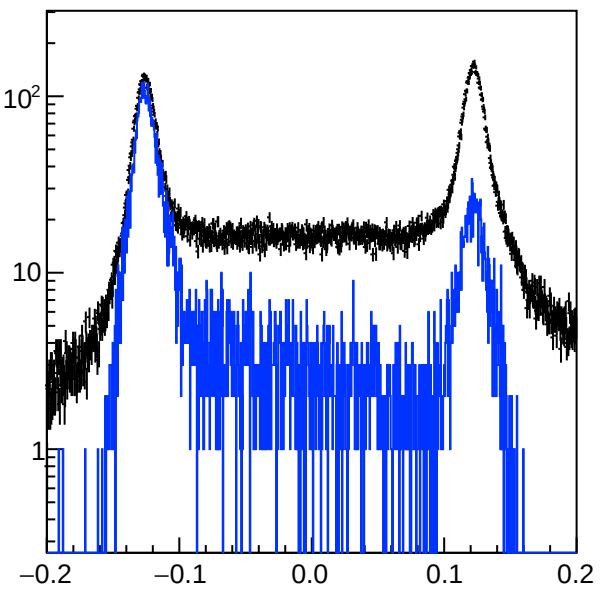
h_Rz2

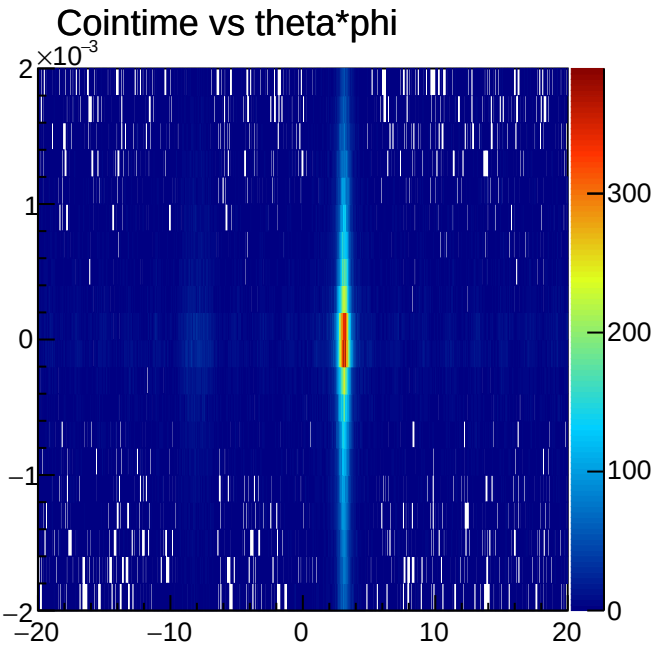


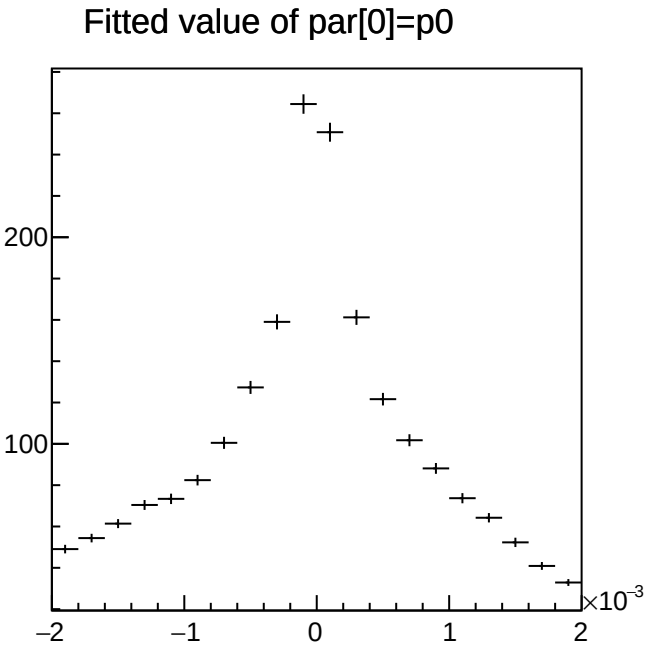
h_Lz

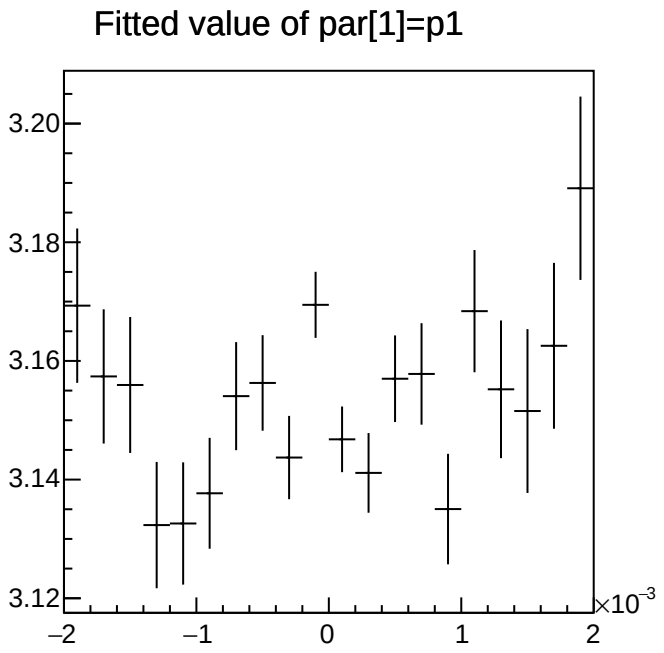


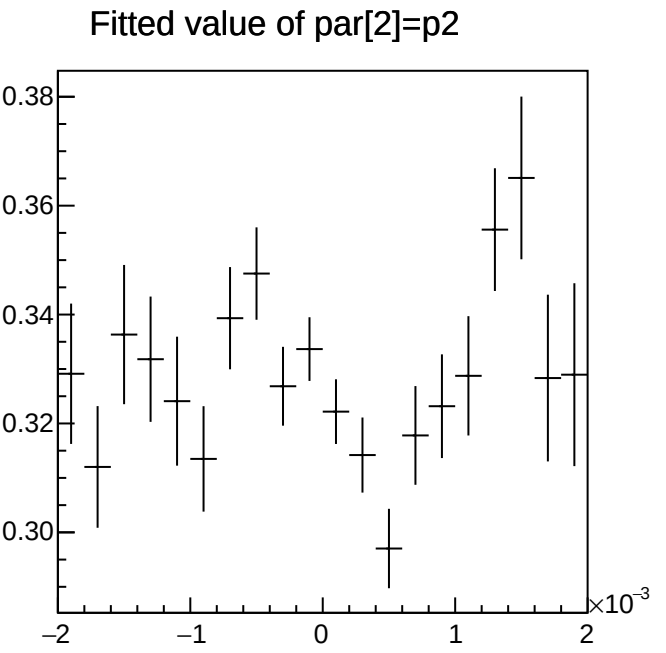
h_Rz



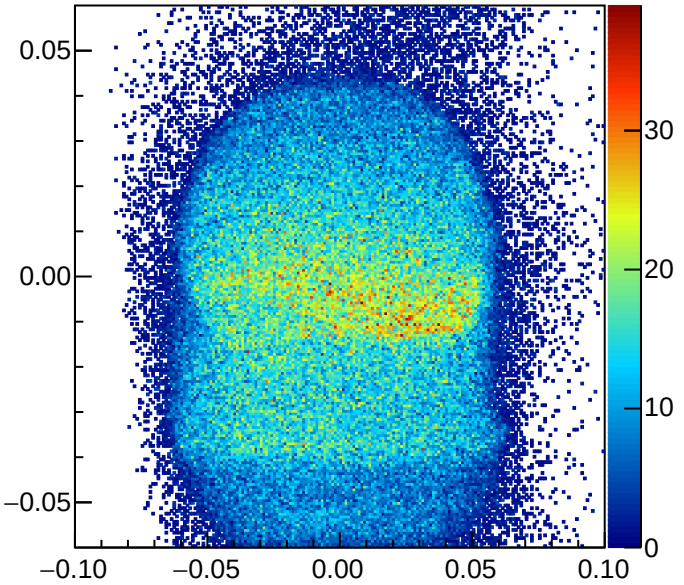

Cointime vs theta*phi
×10⁻³
2
1
0
−1
−2
−20
−10
0
10
20
300
200
100
0


Fitted value of par[0]=p0
200
100
−2
−1
0
1
2
×10⁻³

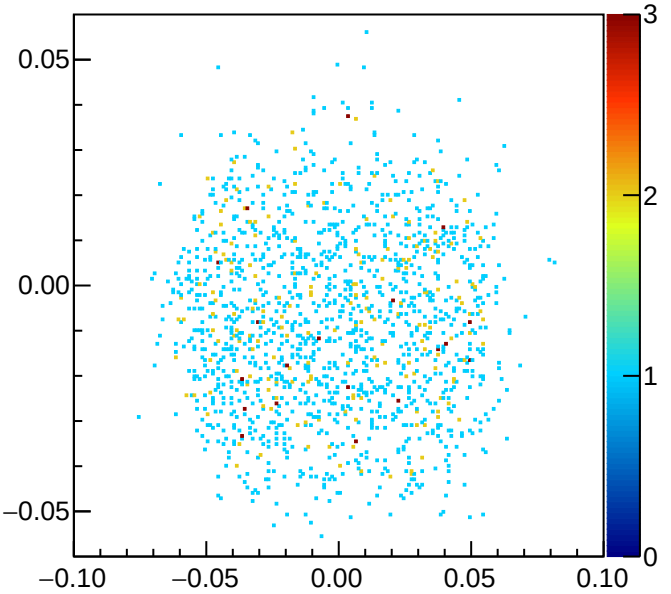

Fitted value of par[1]=p1
3.20
3.18
3.16
3.14
3.12
−2
−1
0
1
2
×10⁻³


Fitted value of par[2]=p2
0.38
0.36
0.34
0.32
0.30
−2
−1
0
1
2
×10⁻³

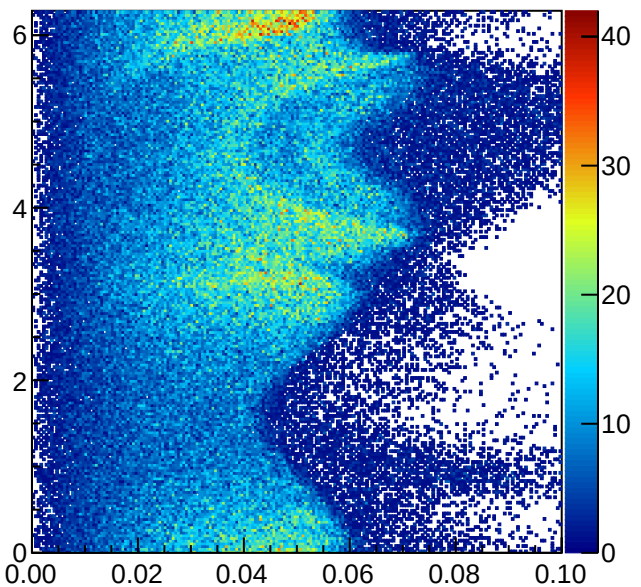
L_th : L_ph (No Cut)



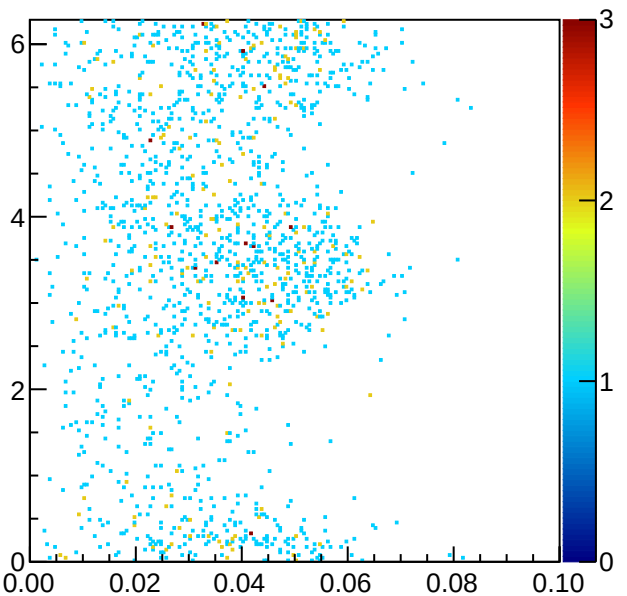
L_th : L_ph (w/ Z, AC Cut)



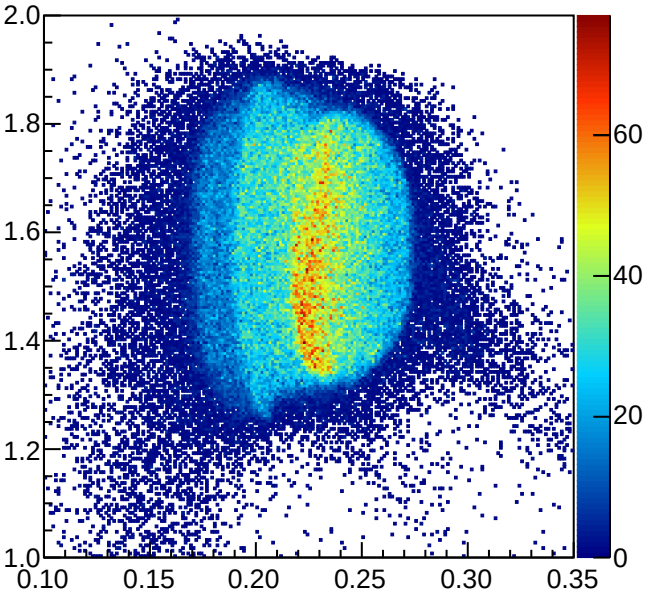
L_th : L_ph (LHRS frame), No Cut



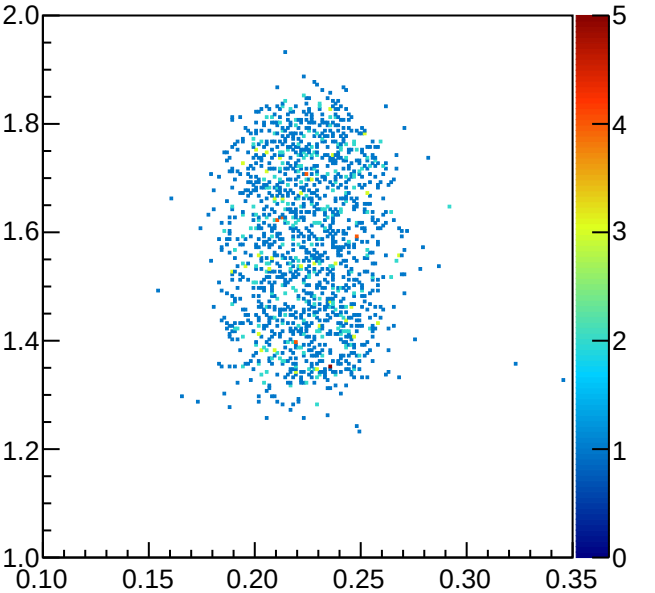
L_th : L_ph (LHRS frame), w/ Z, AC



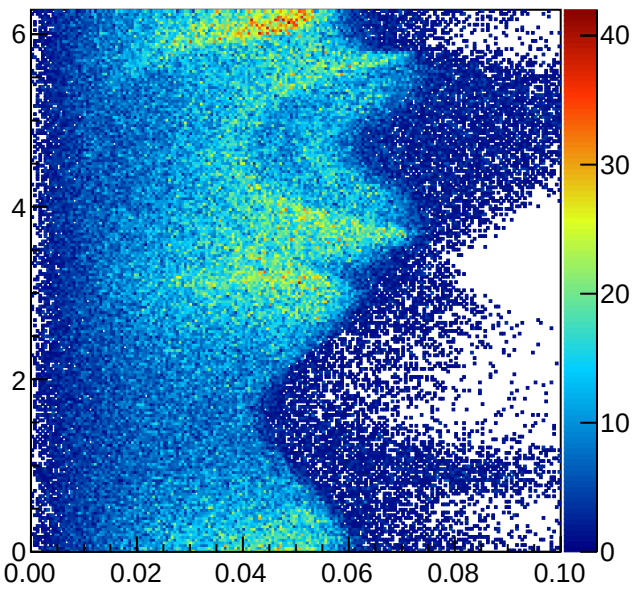
L_th : L_ph (original frame), No Cut



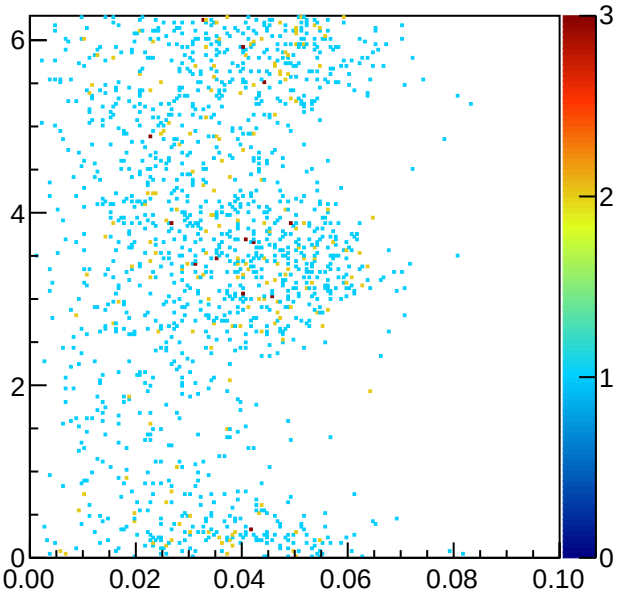
L_th : L_ph (original frame), w/ Z, AC Cut

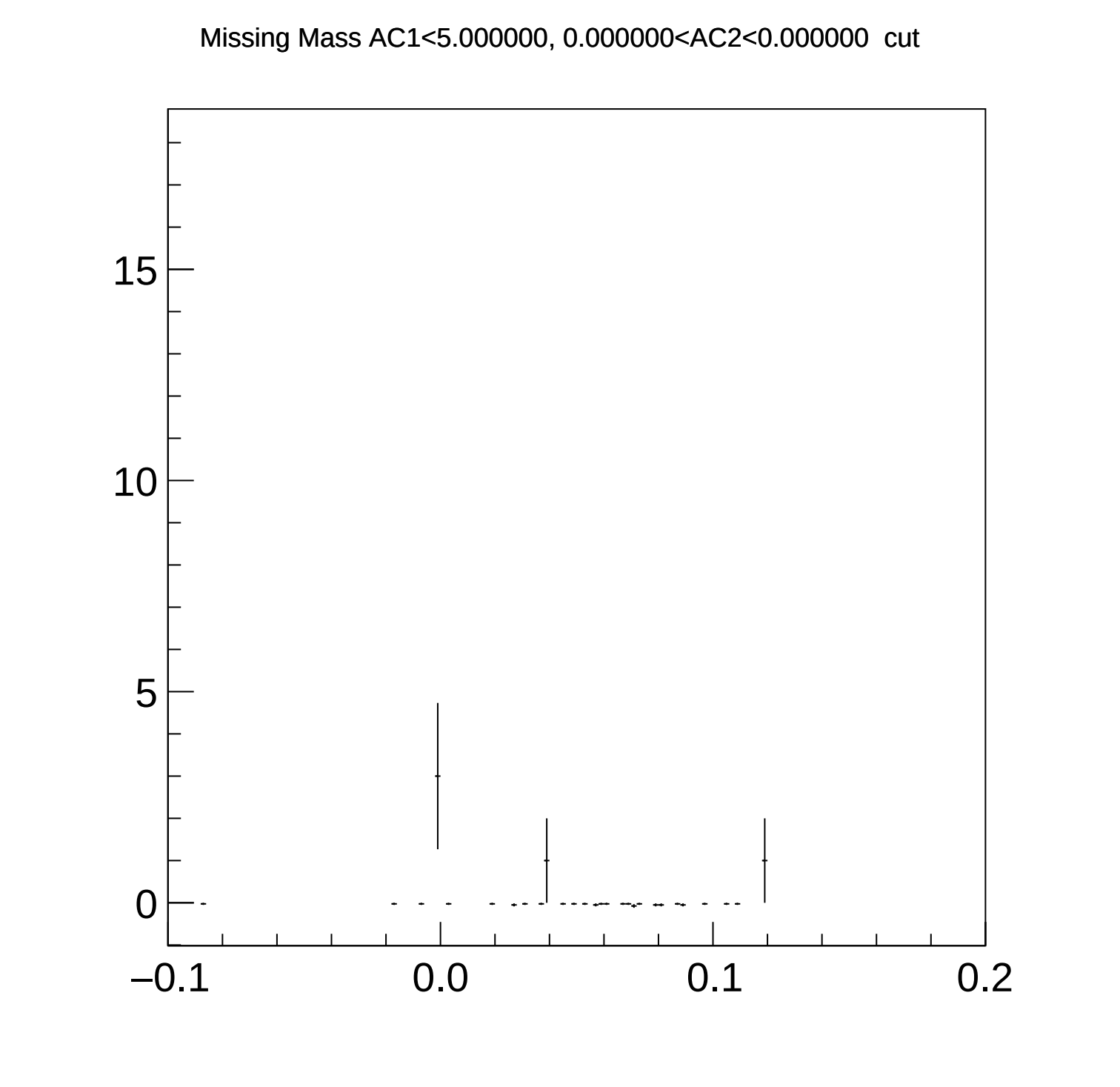


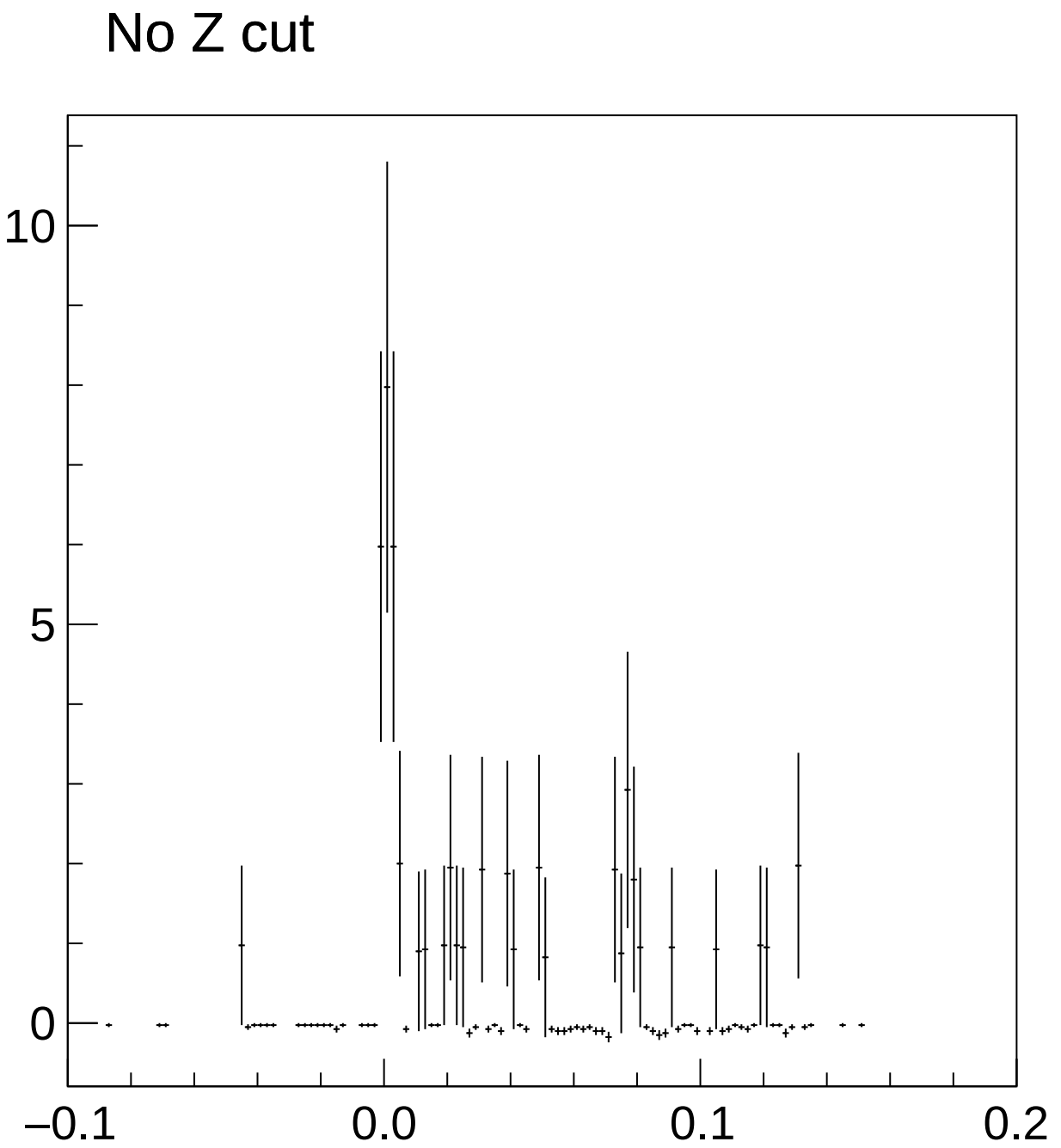
L_th : L_ph (LHRS frame), No Cut

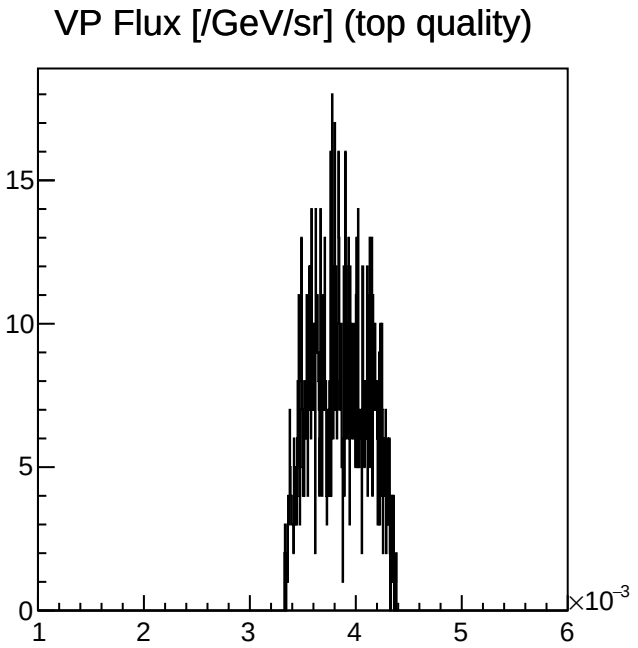


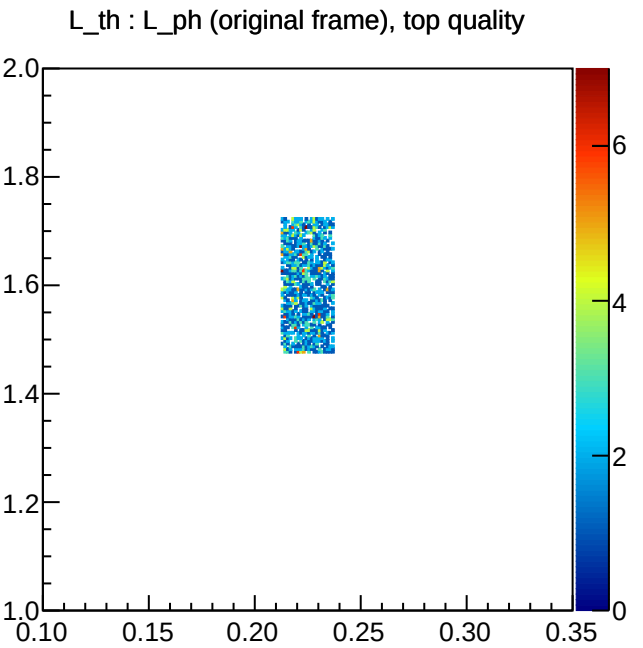
L_th : L_ph (LHRS frame), w/ Z, AC

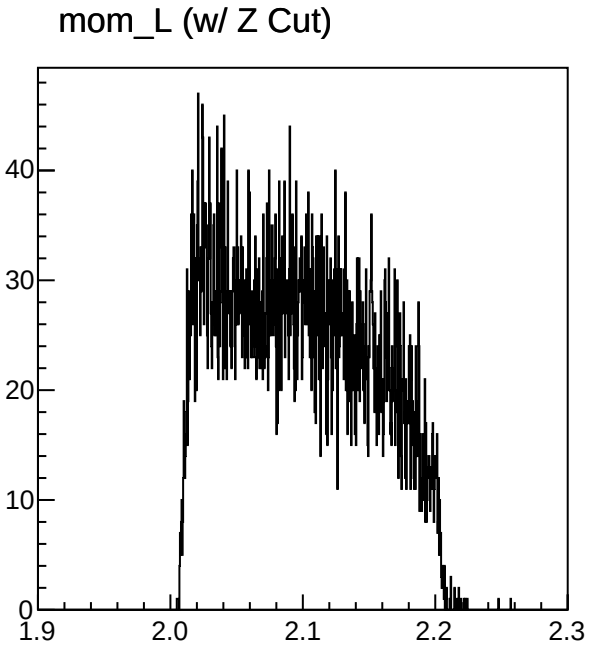


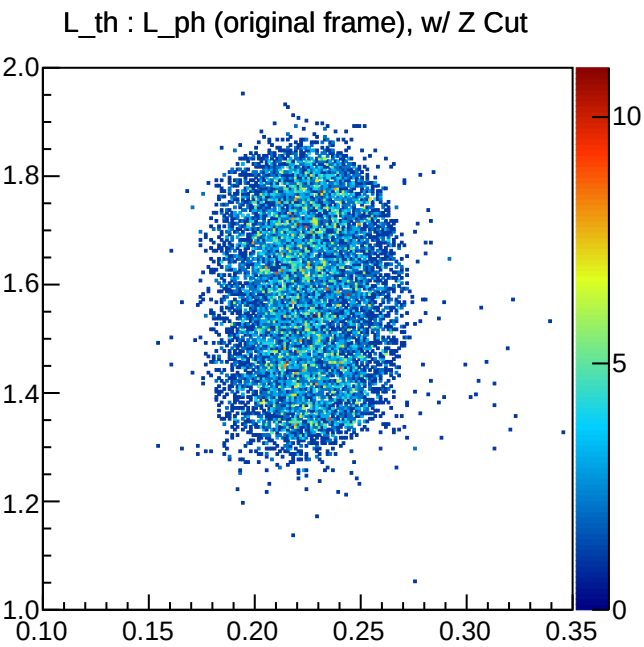

Missing Mass AC1<5.000000, 0.000000<AC2<0.000000 cut
15
10
5
0
–0.1
0.0
0.1
0.2

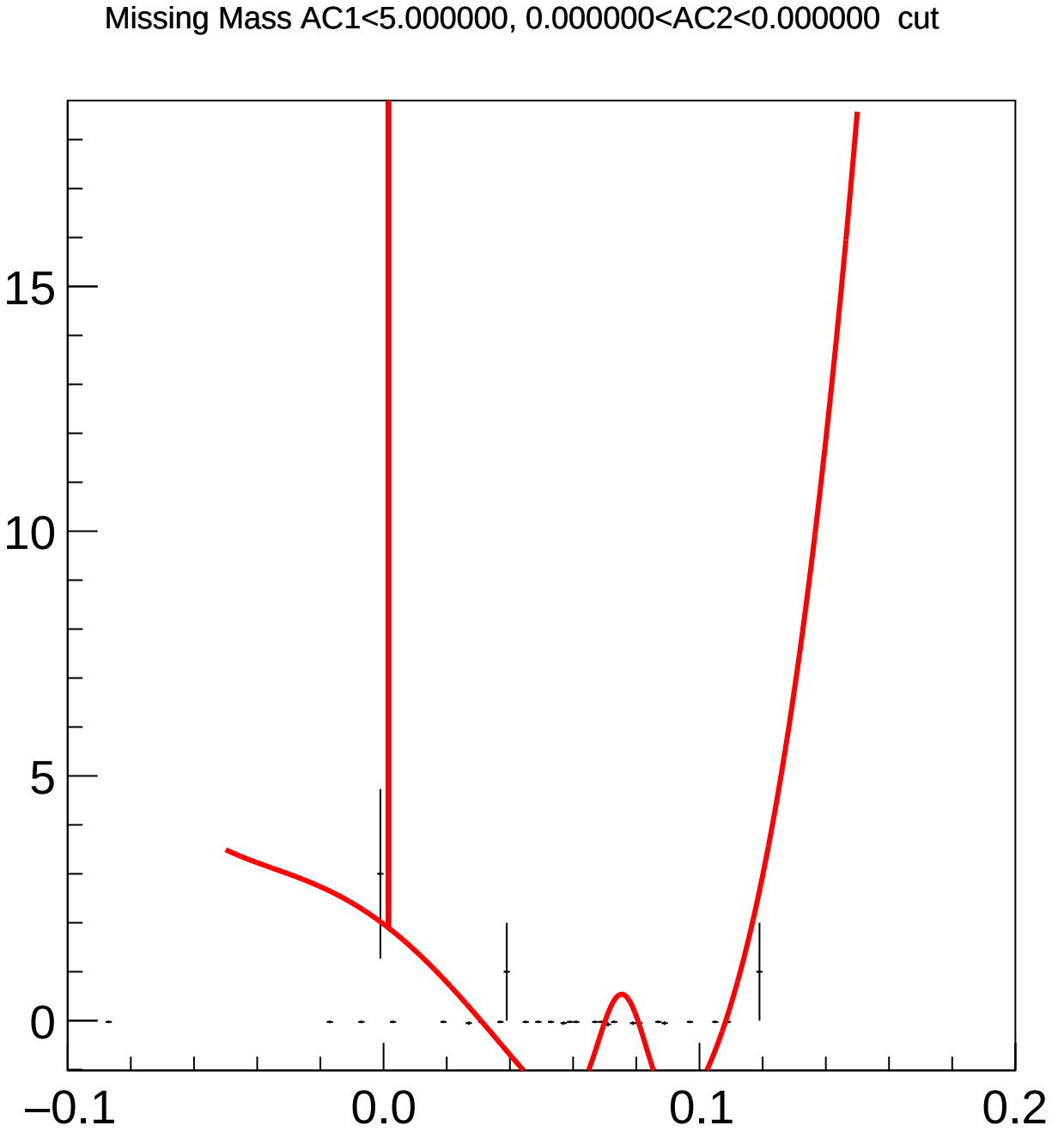

No Z cut
10
5
0
–0.1
0.0
0.1
0.2

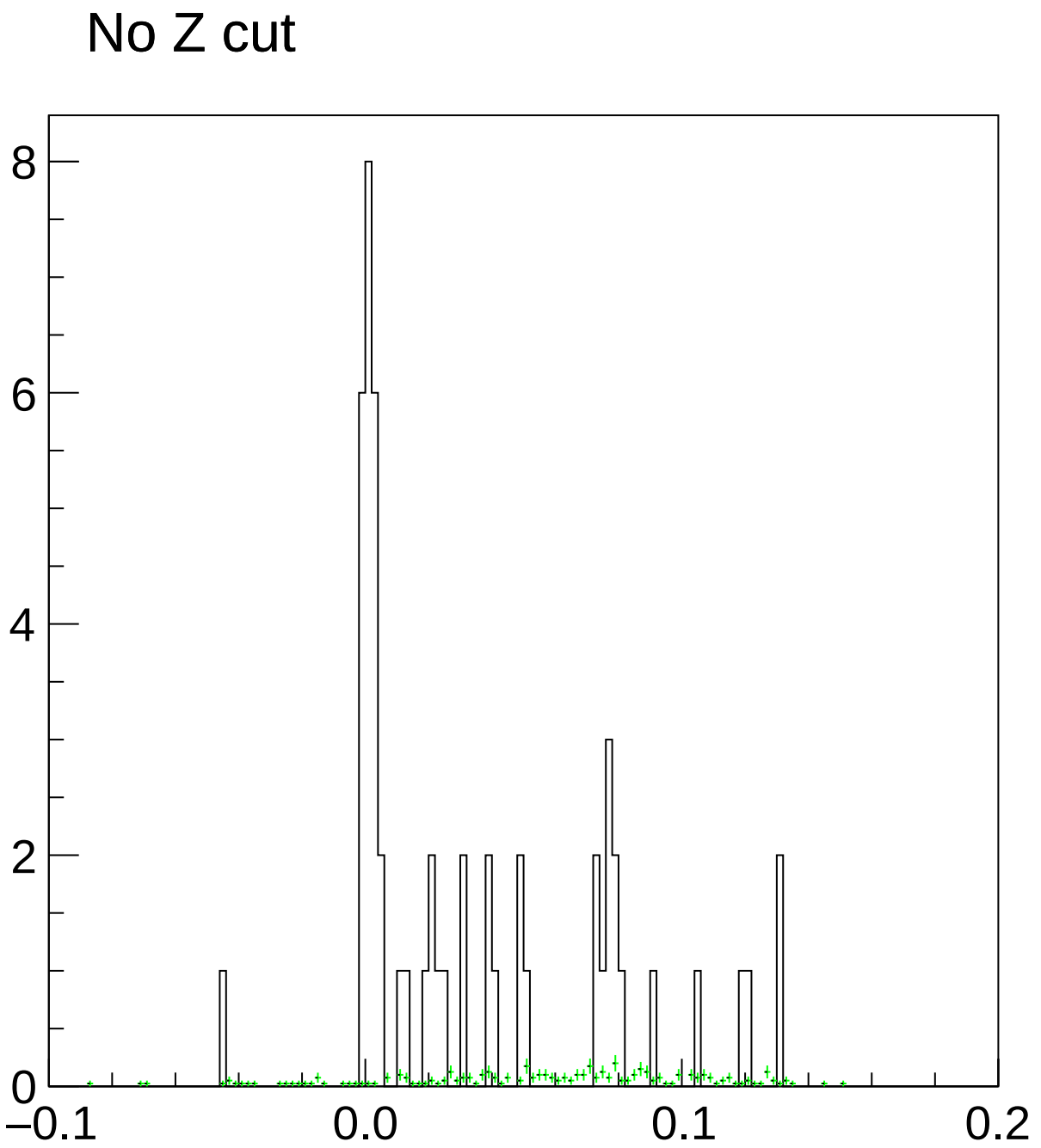

VP Flux [/GeV/sr] (top quality)
15
10
5
0
1
2
3
4
5
6
×10⁻³

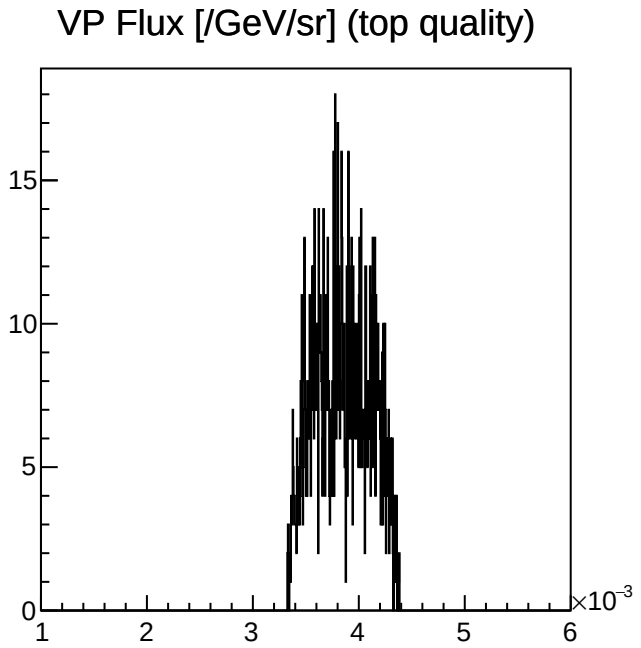

L_th : L_ph (original frame), top quality
2.0
1.8
1.6
1.4
1.2
1.0
0.10
0.15
0.20
0.25
0.30
0.35
6
4
2
0

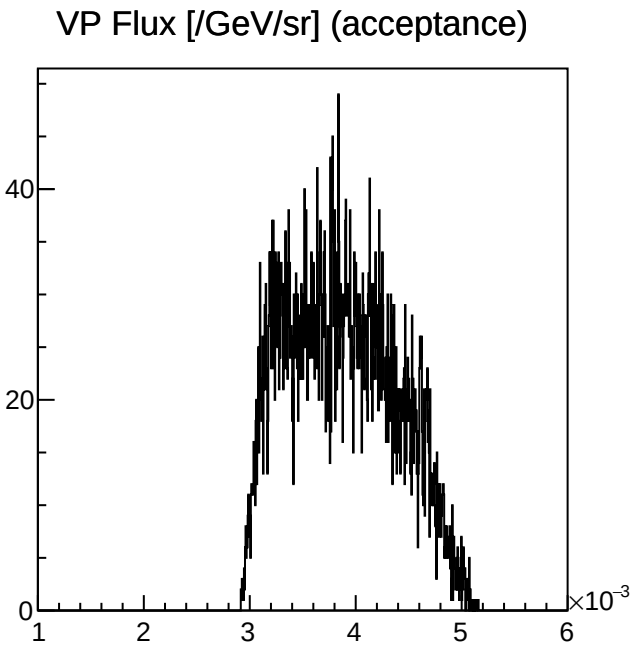

mom_L (w/ Z Cut)
40
30
20
10
0
1.9
2.0
2.1
2.2
2.3

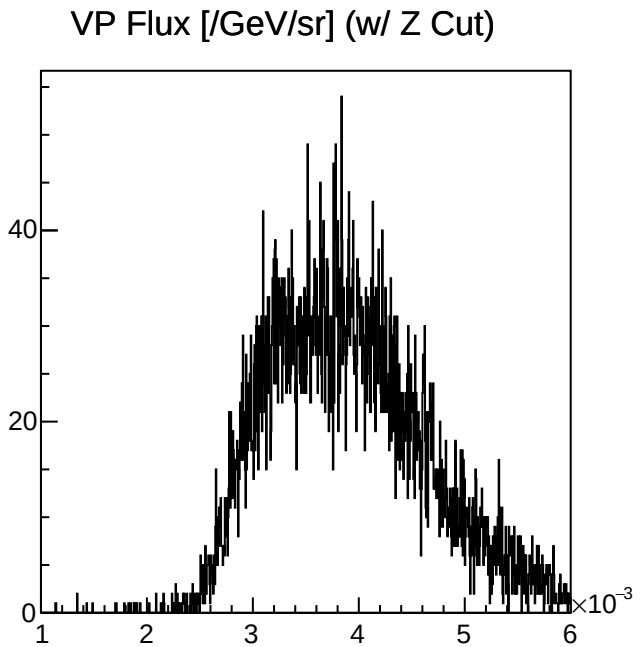

L_th : L_ph (original frame), w/ Z Cut
2.0
1.8
1.6
1.4
1.2
1.0
0.10
0.15
0.20
0.25
0.30
0.35
10
5
0


Missing Mass AC1<5.000000, 0.000000<AC2<0.000000 cut
15
10
5
0
–0.1
0.0
0.1
0.2

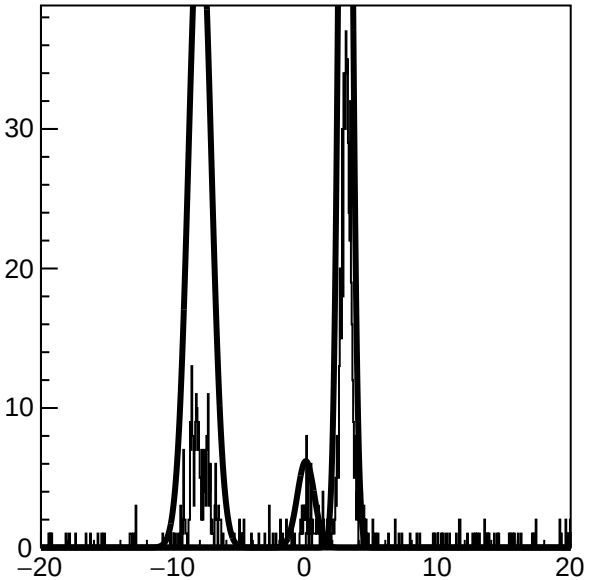

No Z cut
8
6
4
2
0
–0.1
0.0
0.1
0.2


VP Flux [/GeV/sr] (top quality)
15
10
5
0
1
2
3
4
5
6
×10⁻³

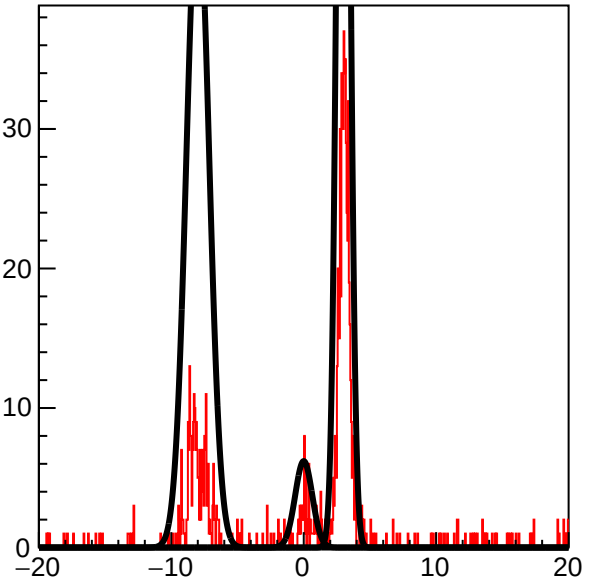

VP Flux [/GeV/sr] (acceptance)
40
20
0
1
2
3
4
5
6
×10⁻³


VP Flux [/GeV/sr] (w/ Z Cut)
40
20
0
1
2
3
4
5
6
×10⁻³

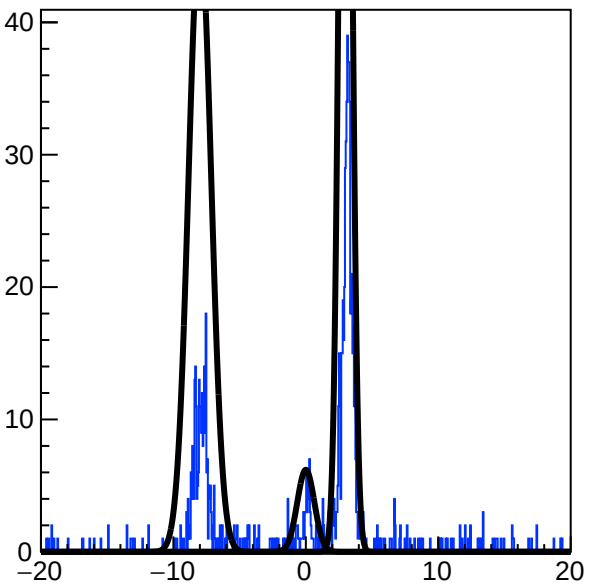
Cointime_before



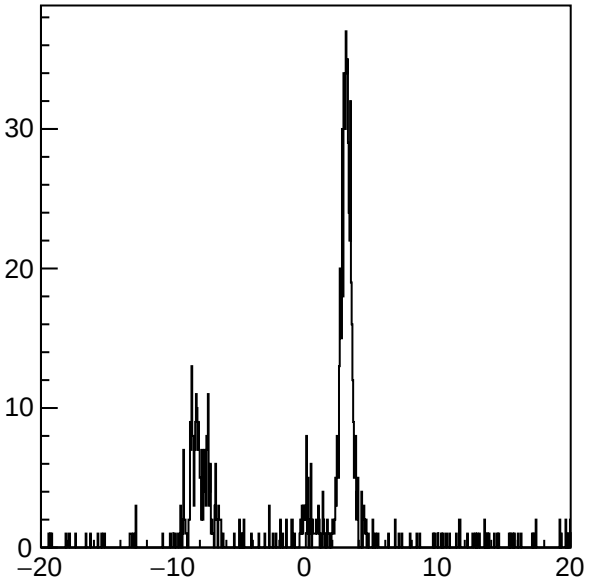
Cointime_after



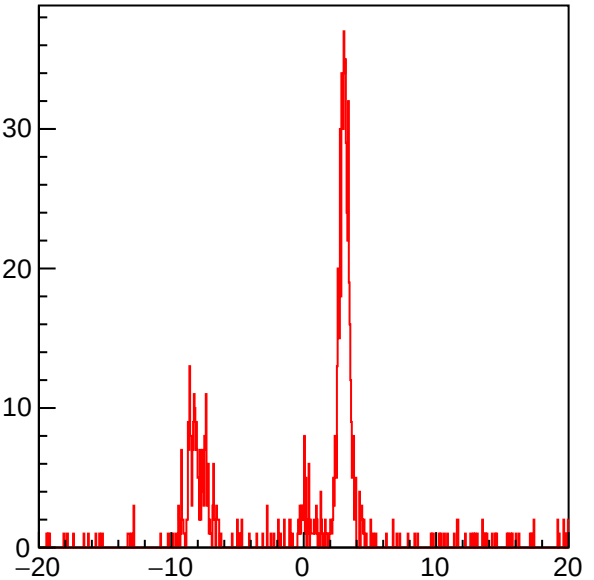
Itabashi_Cointime



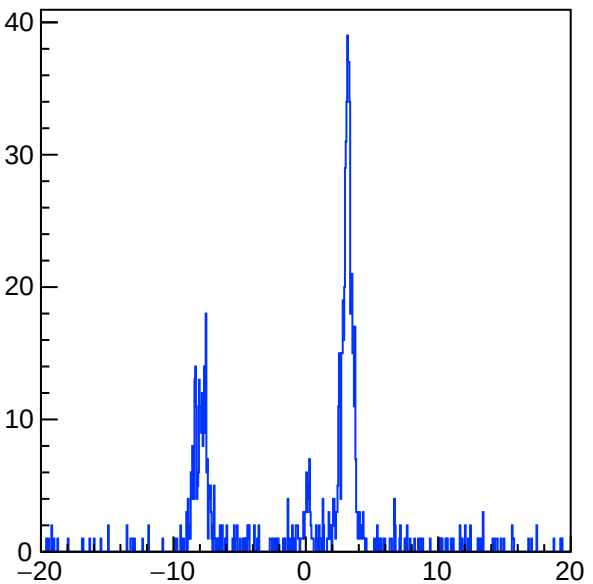
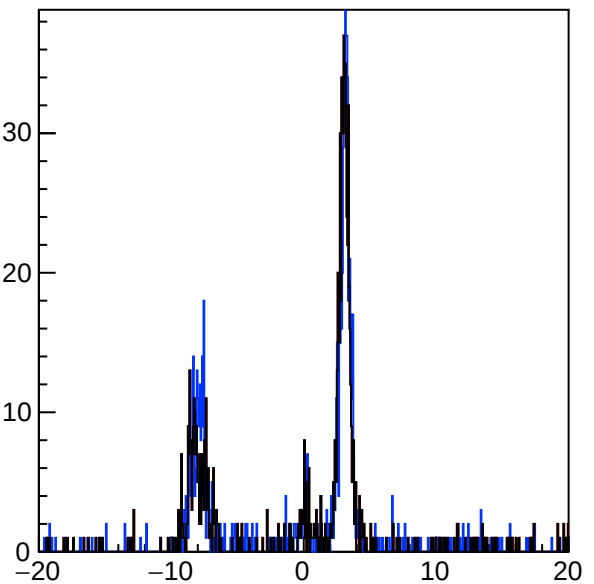
Cointime_before



Cointime_after



Itabashi_Cointime



Cointime_after