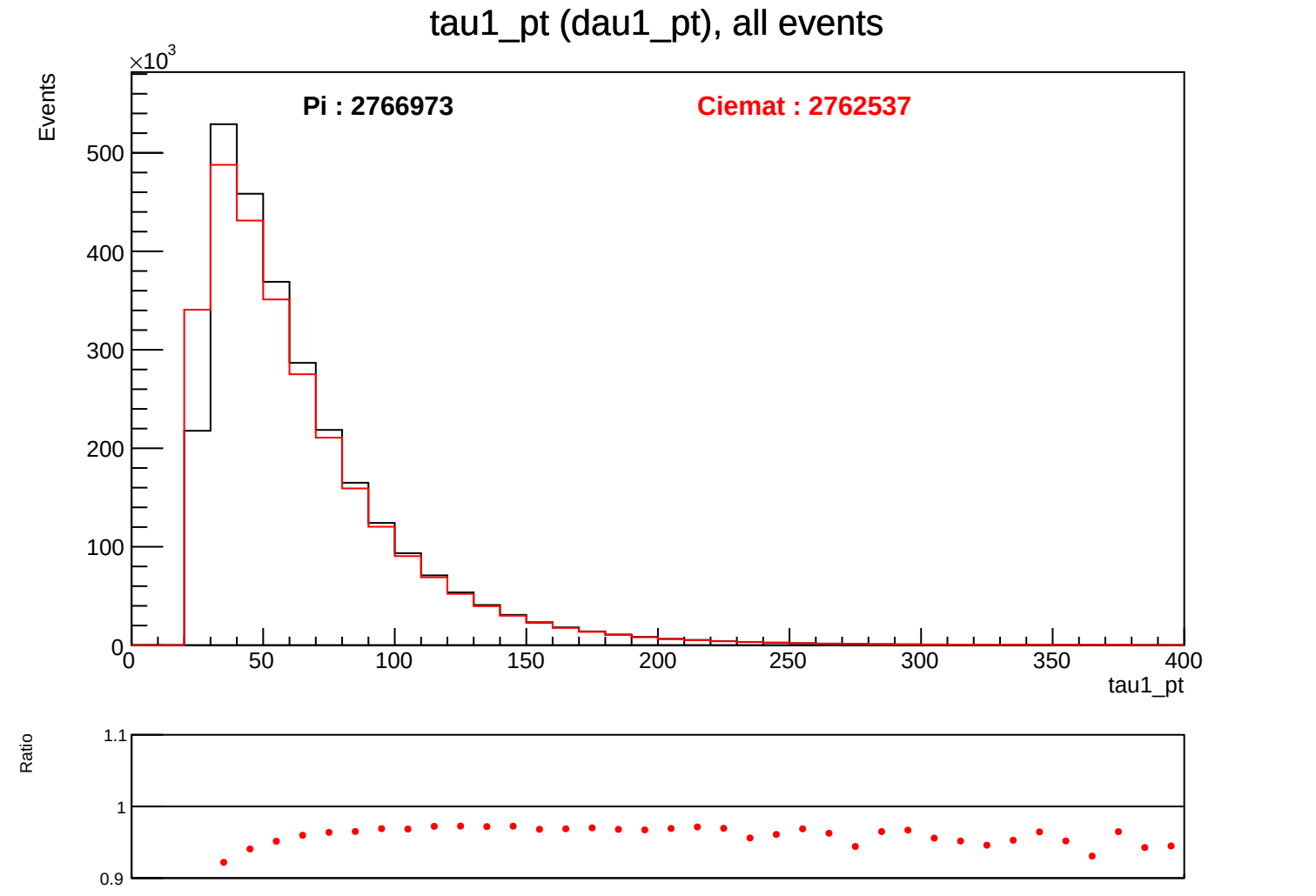
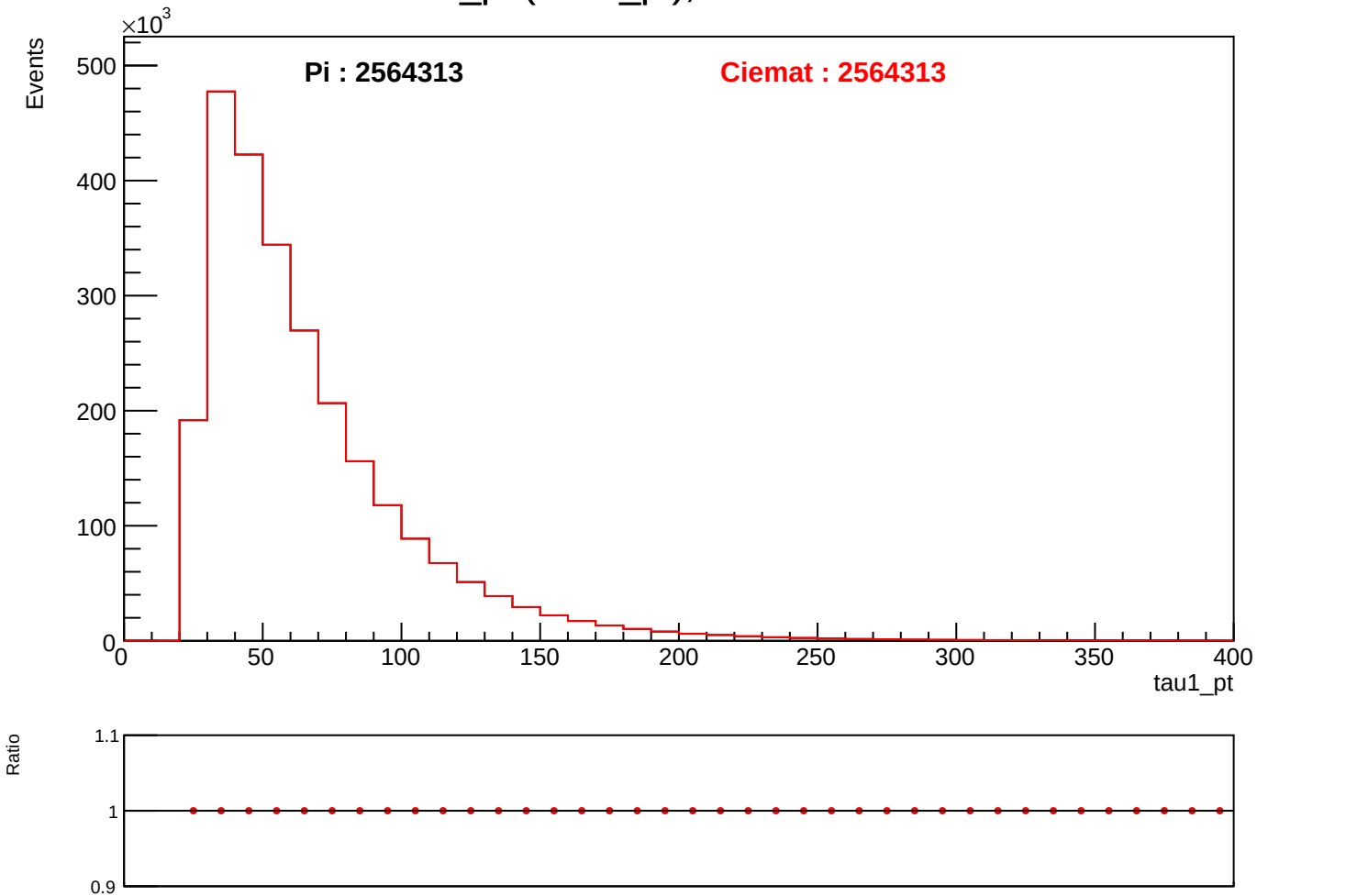
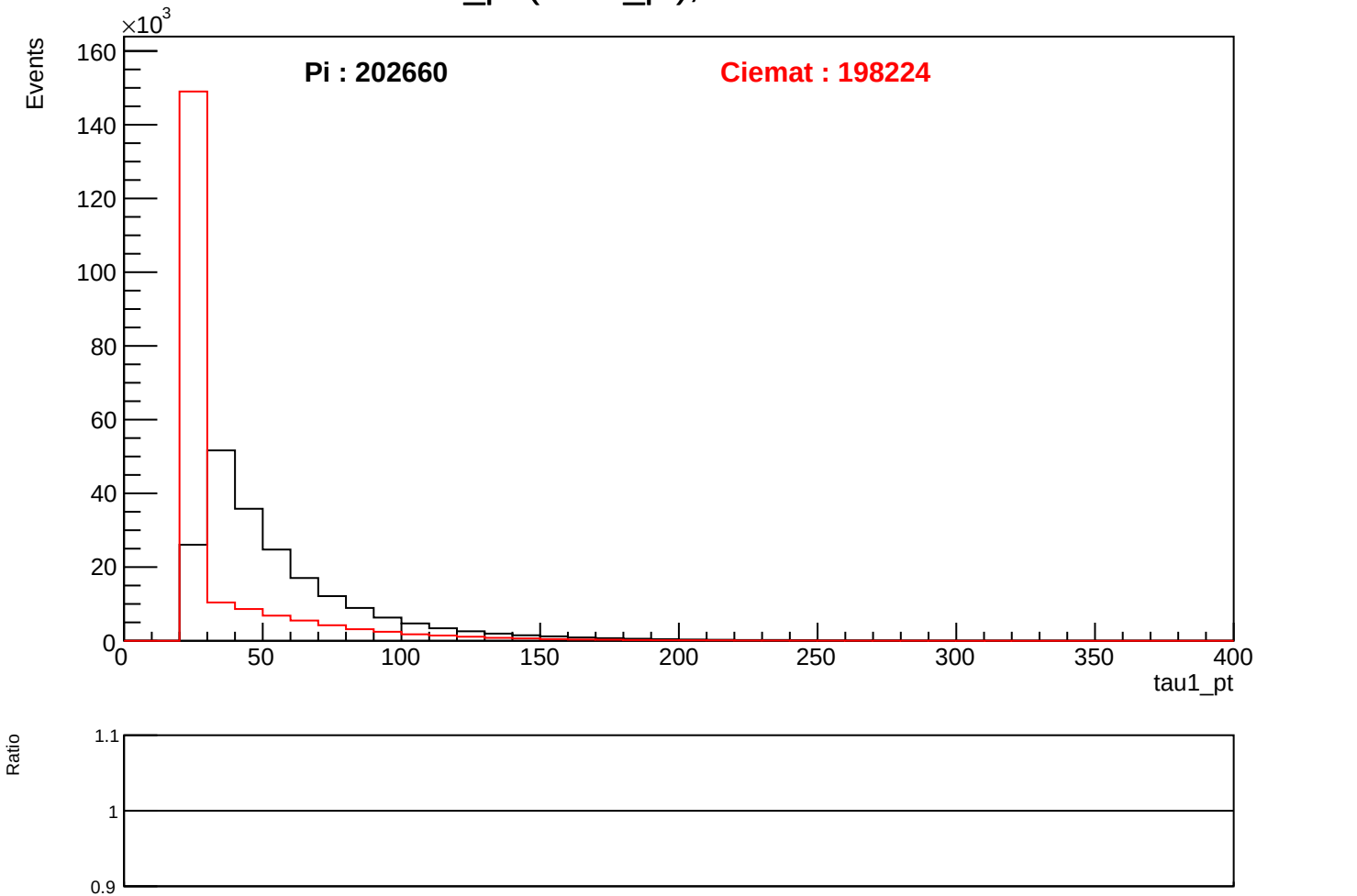
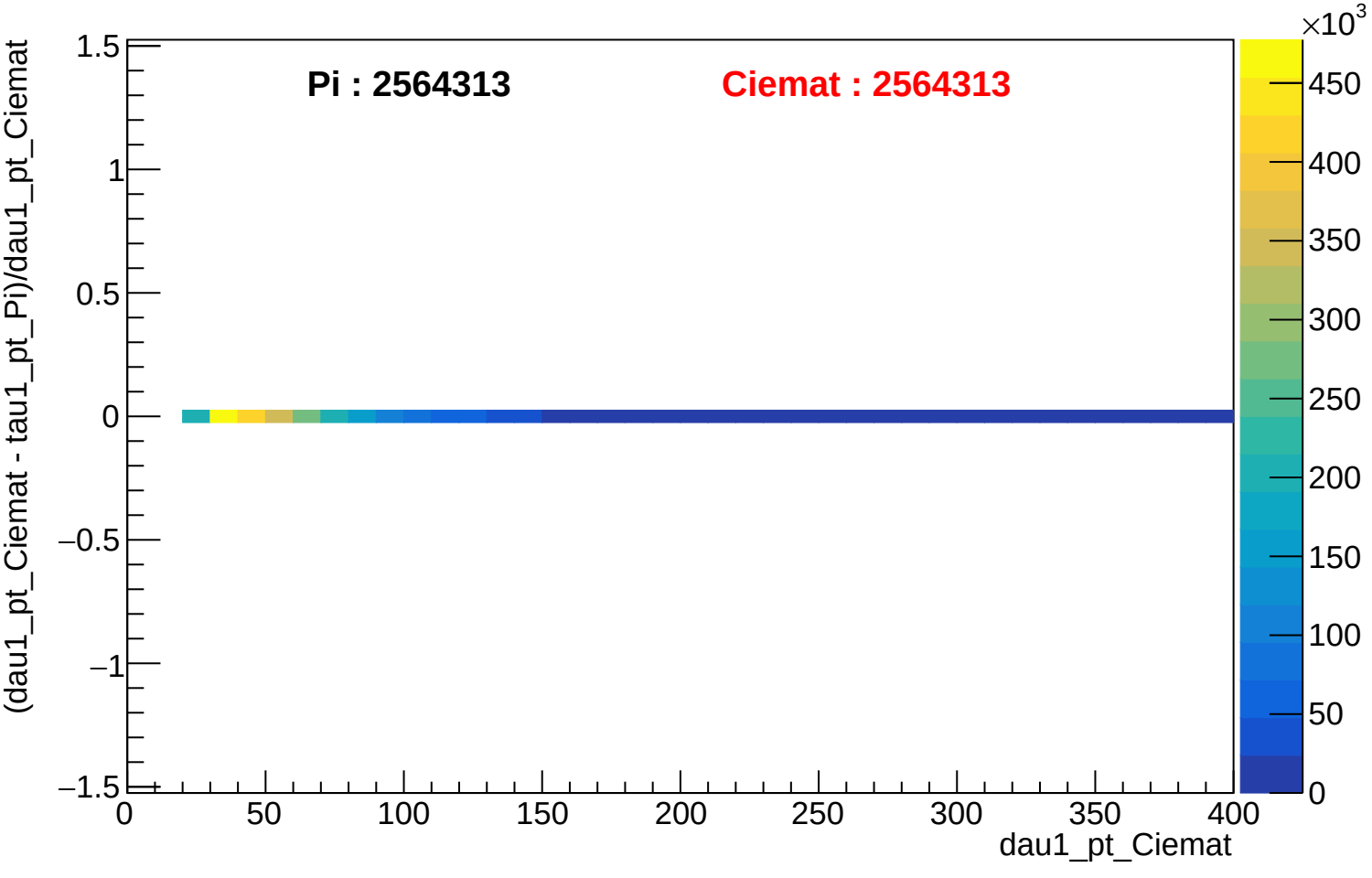
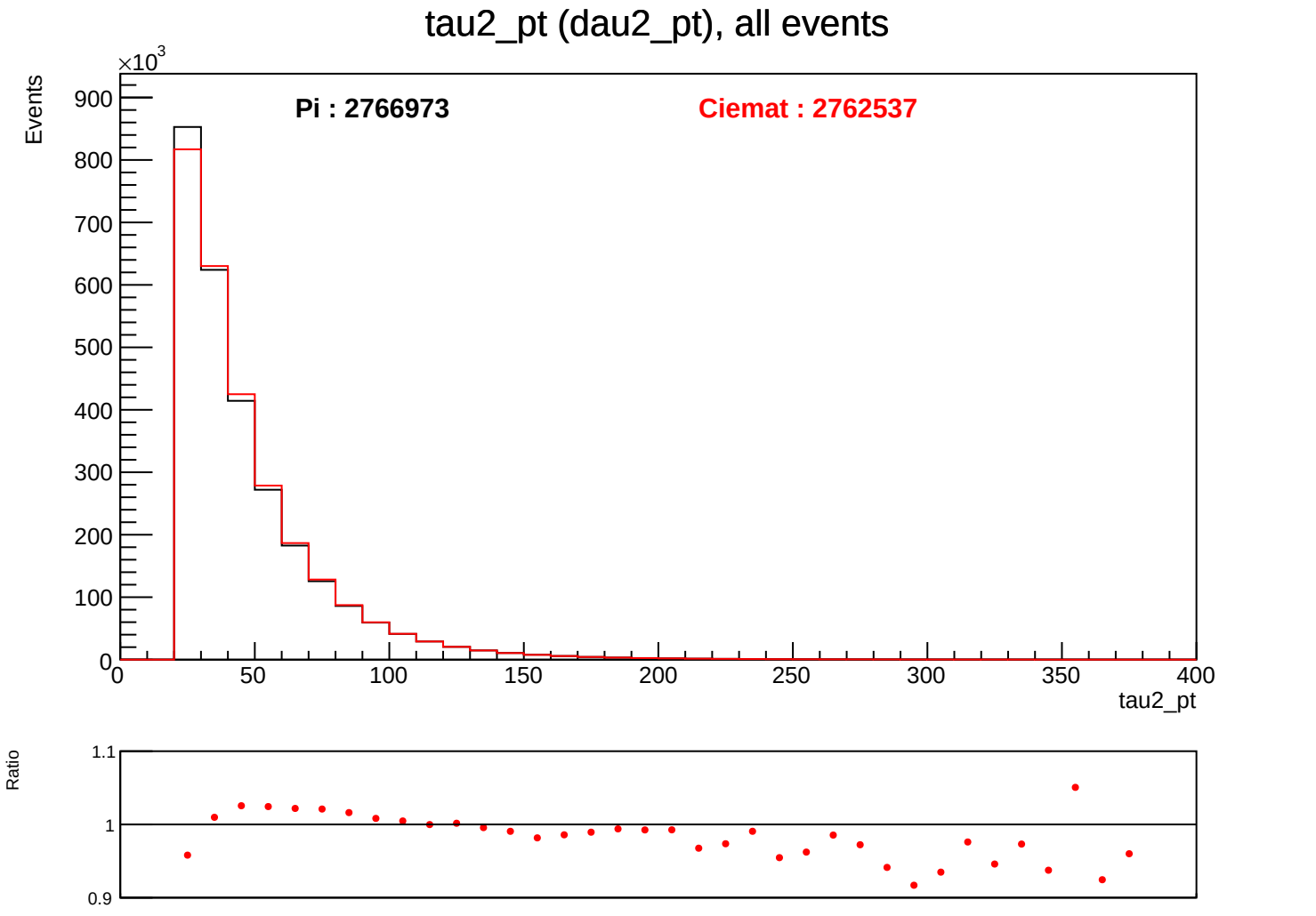
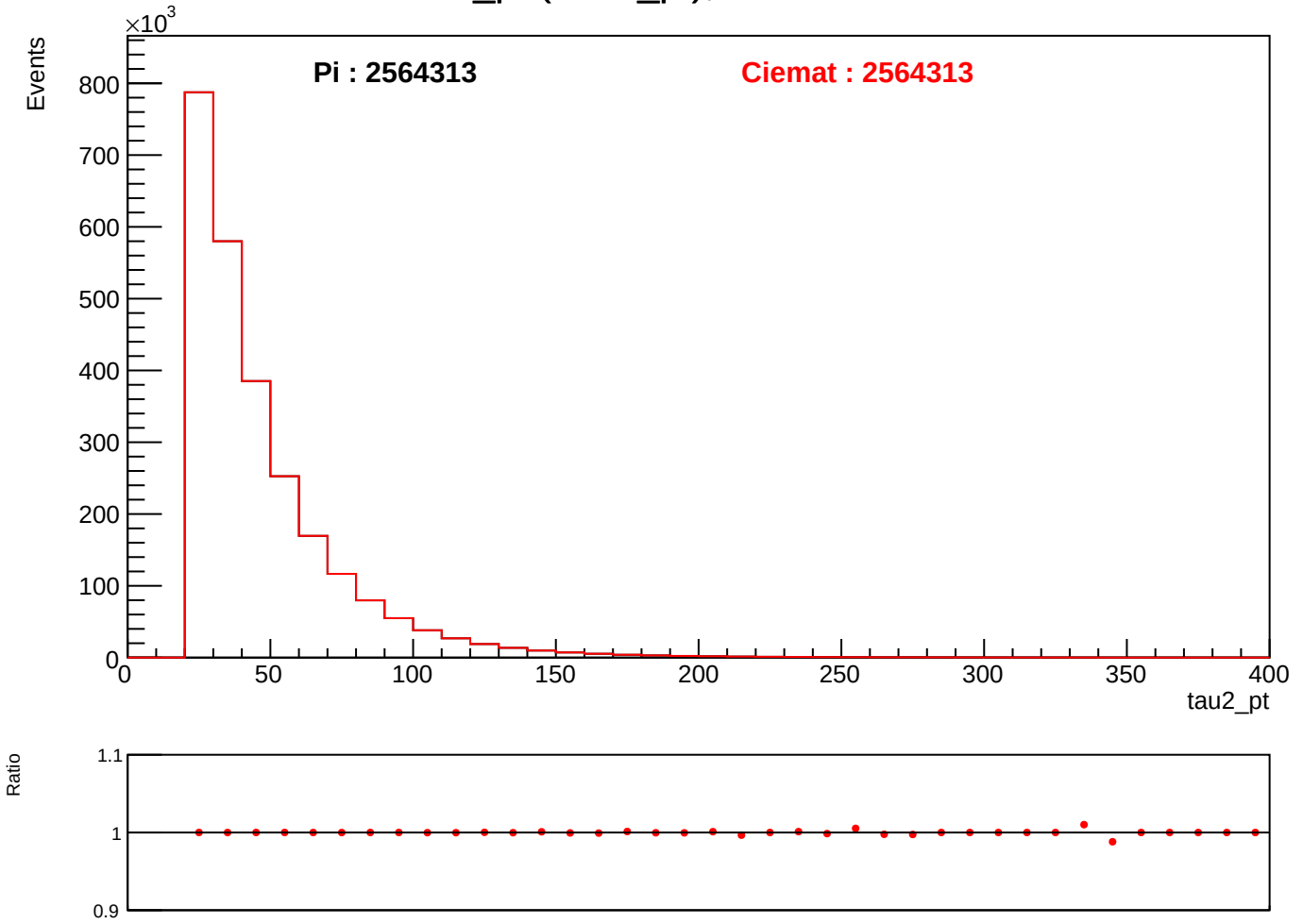

tau1_pt (dau1_pt), all events
Events
×10^3
Pi : 2766973
Ciemat : 2762537
500
400
300
200
100
0
0
50
100
150
200
250
300
350
400
tau1_pt
Ratio
1.1
1
0.9

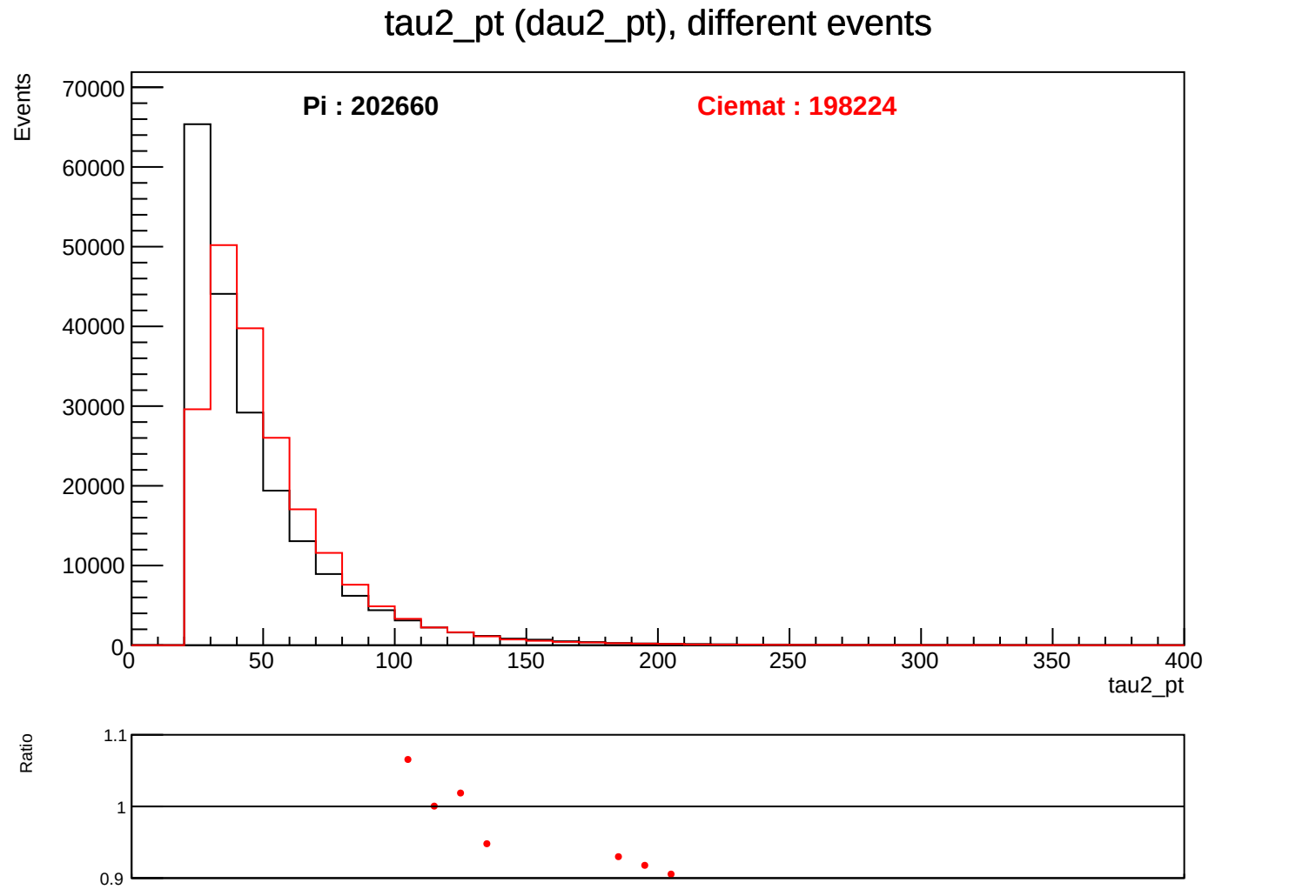

tau1_pt (dau1_pt), common events
Events
×10^3
Pi : 2564313
Ciemat : 2564313
500
400
300
200
100
0
0
50
100
150
200
250
300
350
400
tau1_pt
Ratio
1.1
1
0.9

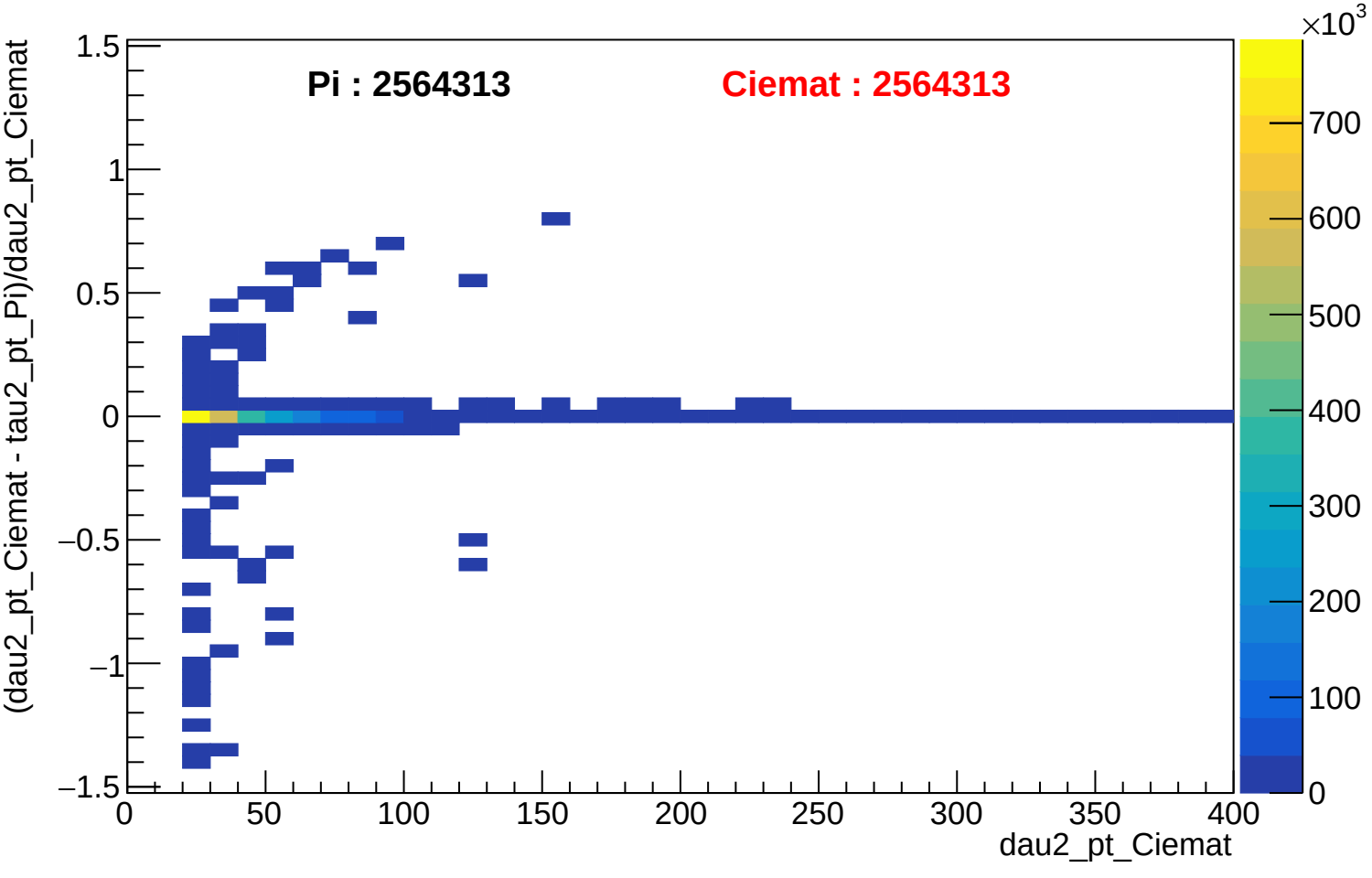

tau1_pt (dau1_pt), different events
Events
×10^3
160
140
120
100
80
60
40
20
0
Pi : 202660
Ciemat : 198224
0
50
100
150
200
250
300
350
400
tau1_pt
Ratio
1.1
1
0.9

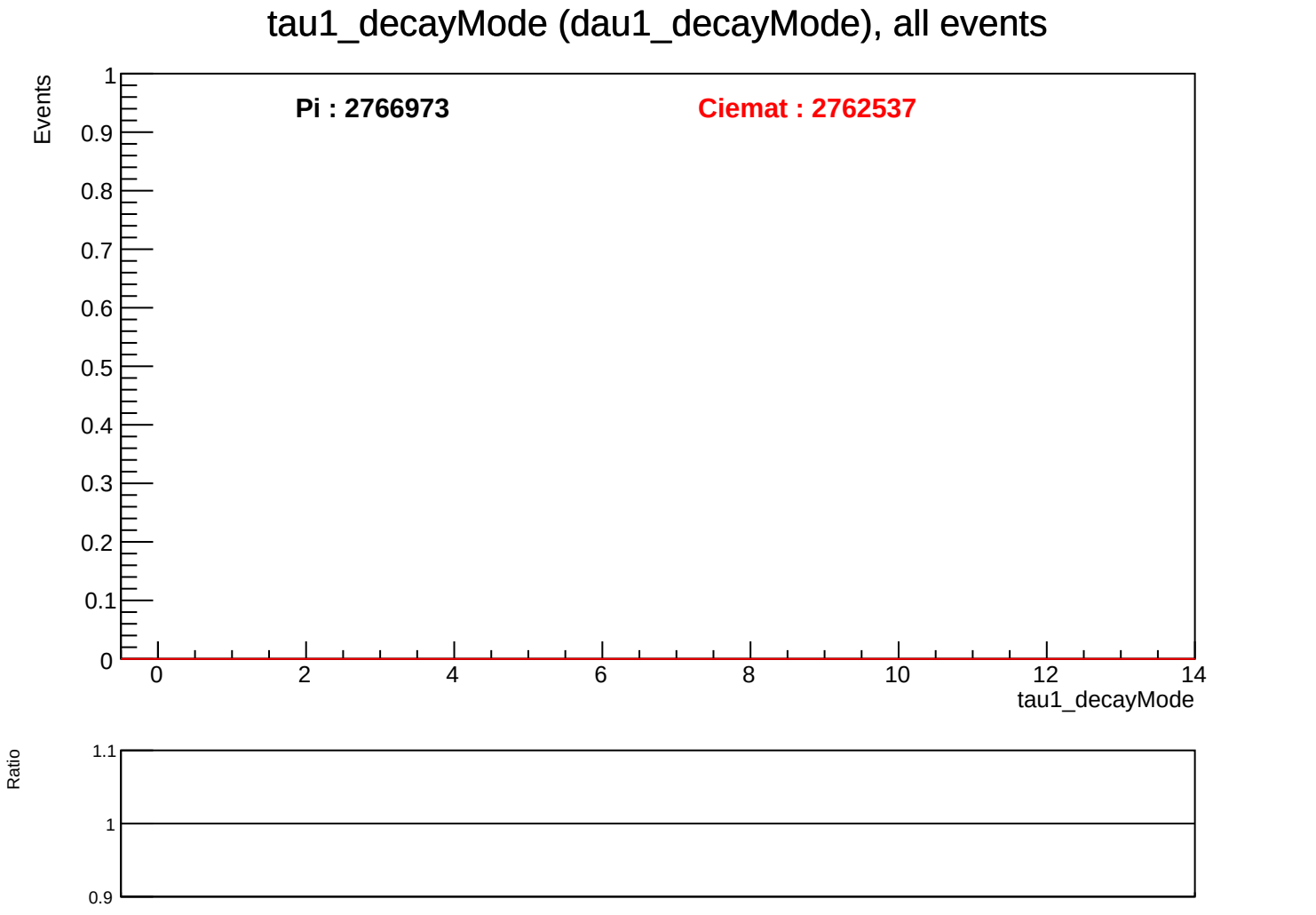

tau1_pt (dau1_pt), common events
Pi : 2564313
Ciemat : 2564313
(dau1_pt_Ciemat - tau1_pt_Pi)/dau1_pt_Ciemat
dau1_pt_Ciemat
×10^3
1.5
1
0.5
0
−0.5
−1
−1.5
0
50
100
150
200
250
300
350
400
450

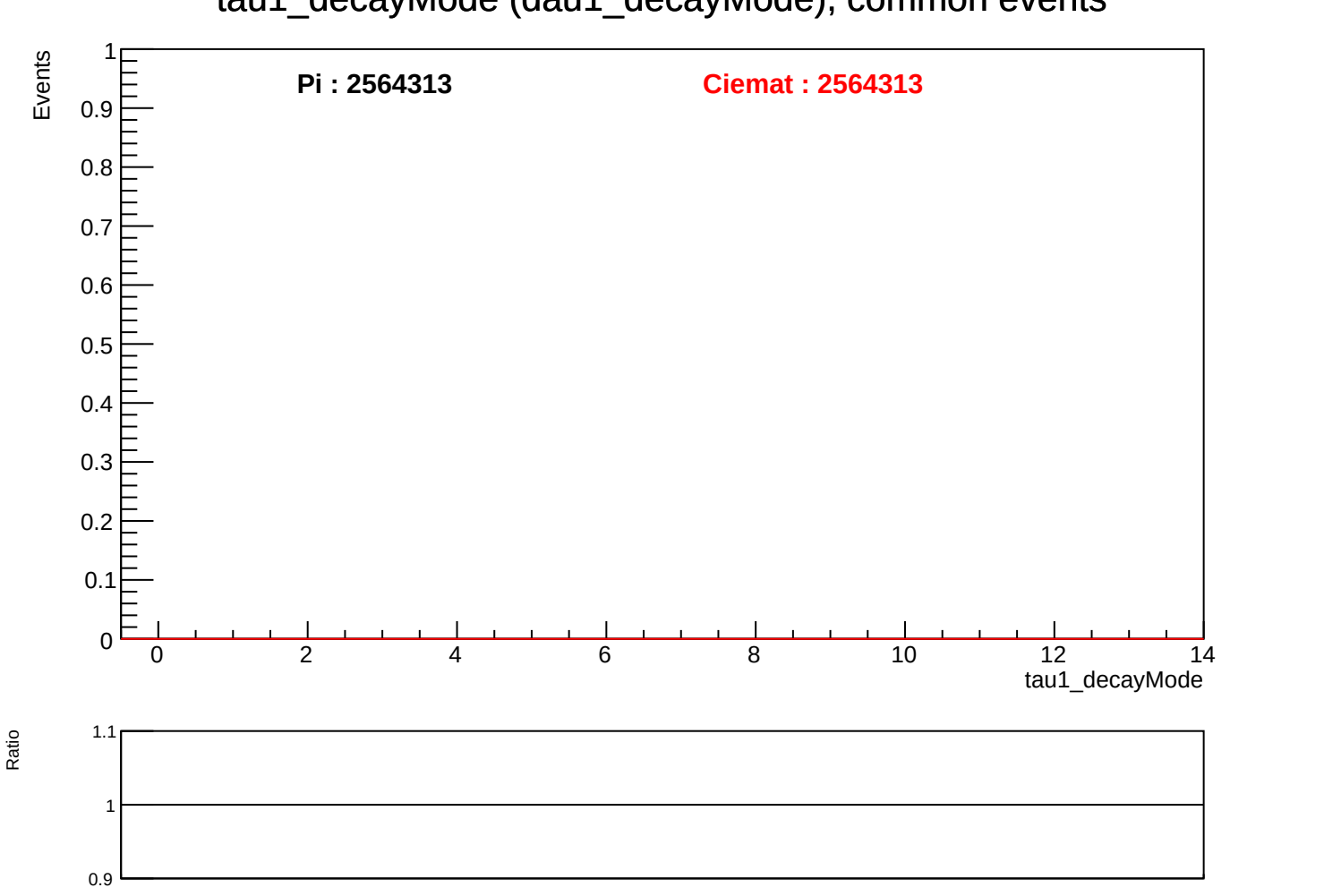

tau2_pt (dau2_pt), all events
Pi : 2766973
Ciemat : 2762537
Events
×10^3
900
800
700
600
500
400
300
200
100
0
0
50
100
150
200
250
300
350
400
tau2_pt
Ratio
1.1
1
0.9

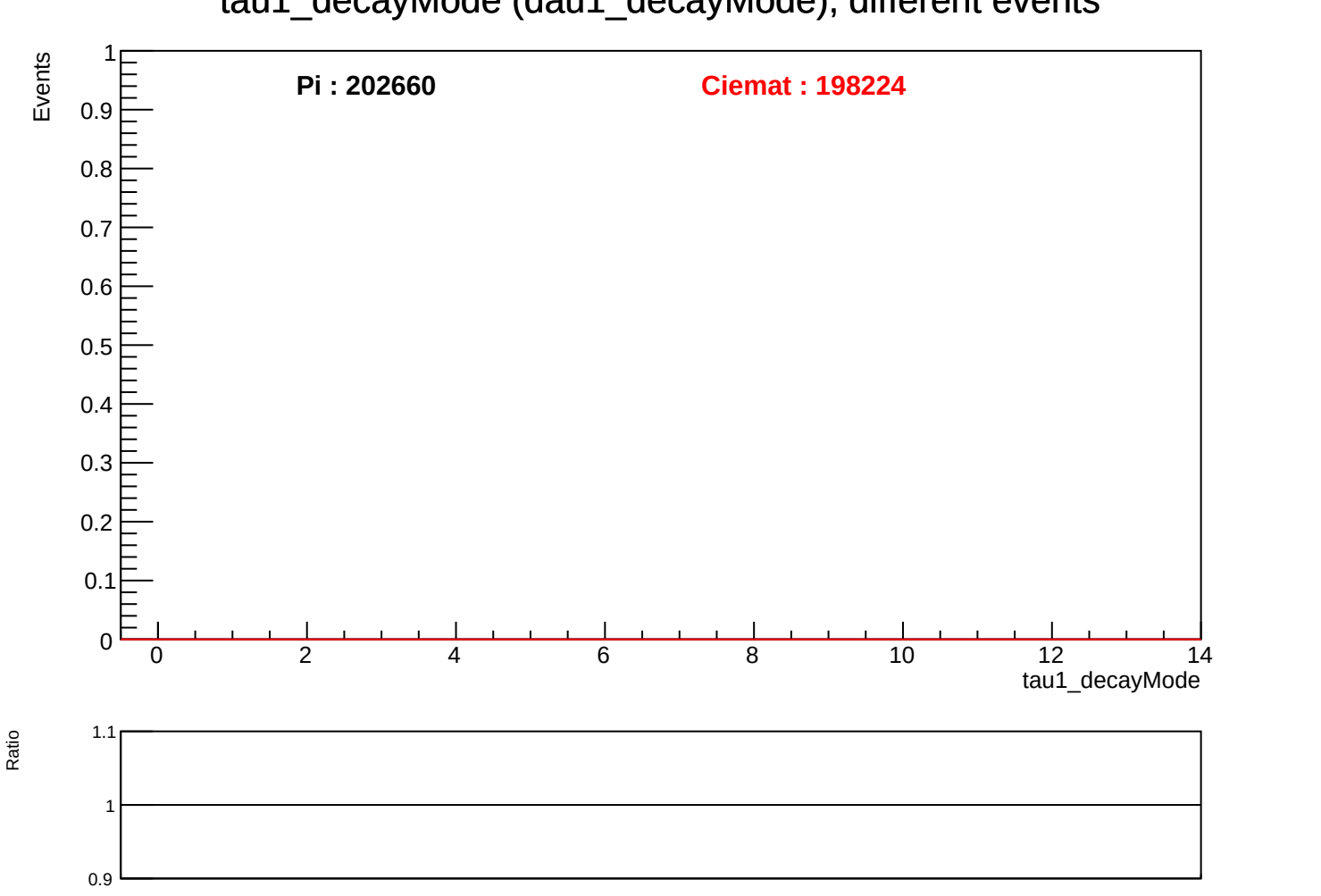

tau2_pt (dau2_pt), common events
Events
×10^3
Pi : 2564313
Ciemat : 2564313
800
700
600
500
400
300
200
100
0
0
50
100
150
200
250
300
350
400
tau2_pt
Ratio
1.1
1
0.9

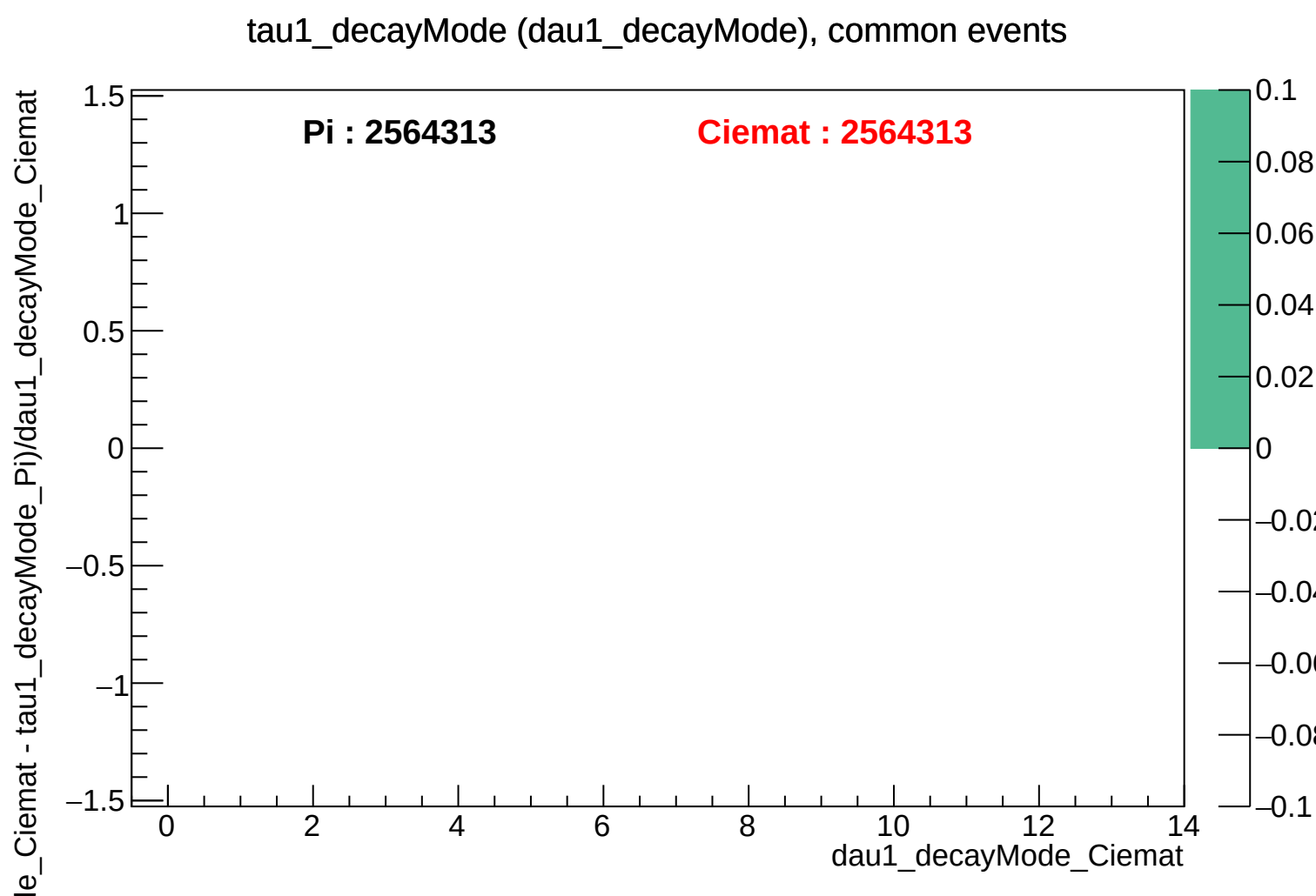

tau2_pt (dau2_pt), different events
Pi : 202660
Ciemat : 198224
Events
70000
60000
50000
40000
30000
20000
10000
0
0
50
100
150
200
250
300
350
400
tau2_pt
Ratio
1.1
1
0.9

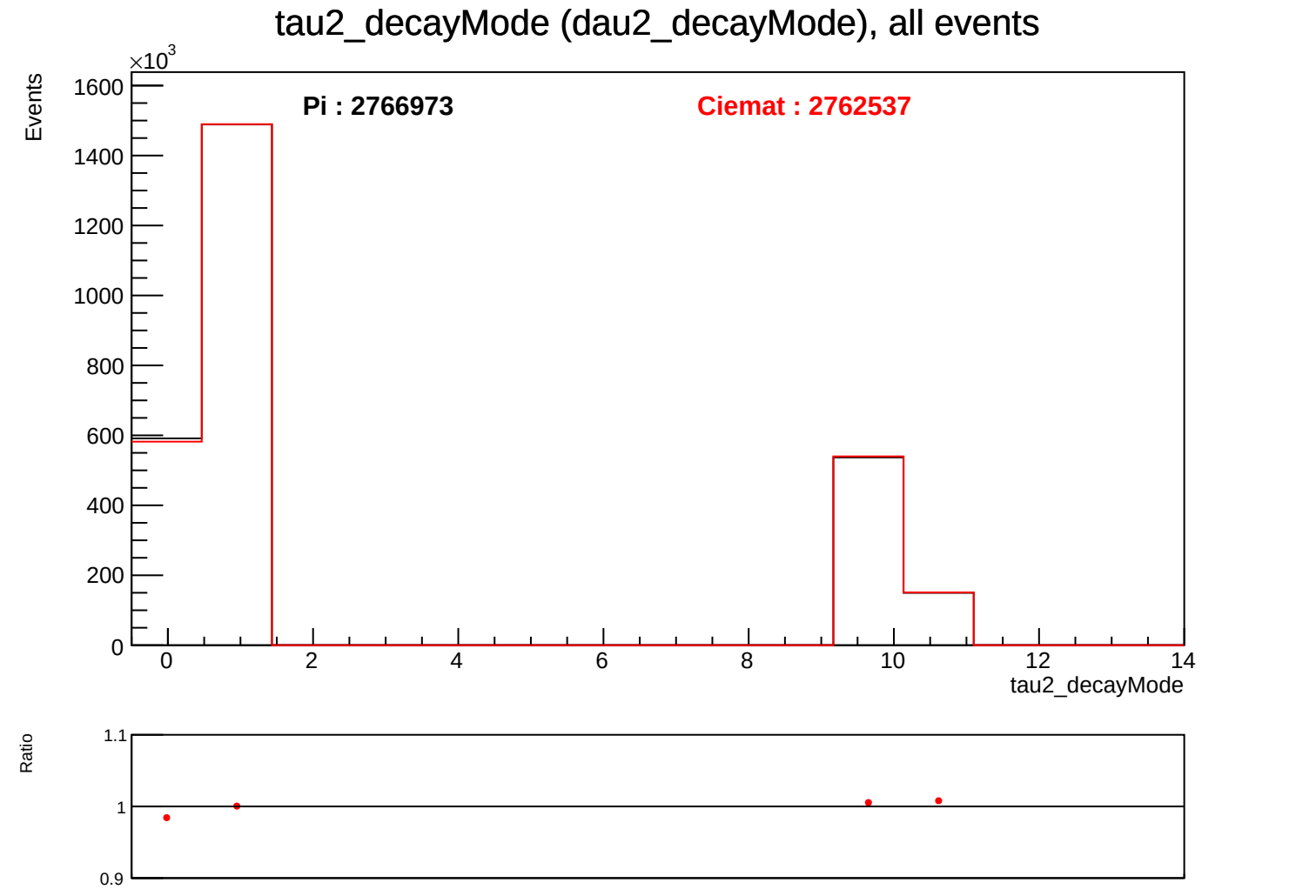

tau2_pt (dau2_pt), common events
Pi : 2564313
Ciemat : 2564313
(dau2_pt_Ciemat - tau2_pt_Pi)/dau2_pt_Ciemat
dau2_pt_Ciemat
×10^3
1.5
1
0.5
0
−0.5
−1
−1.5
0
50
100
150
200
250
300
350
400
700
600
500
400
300
200
100
0

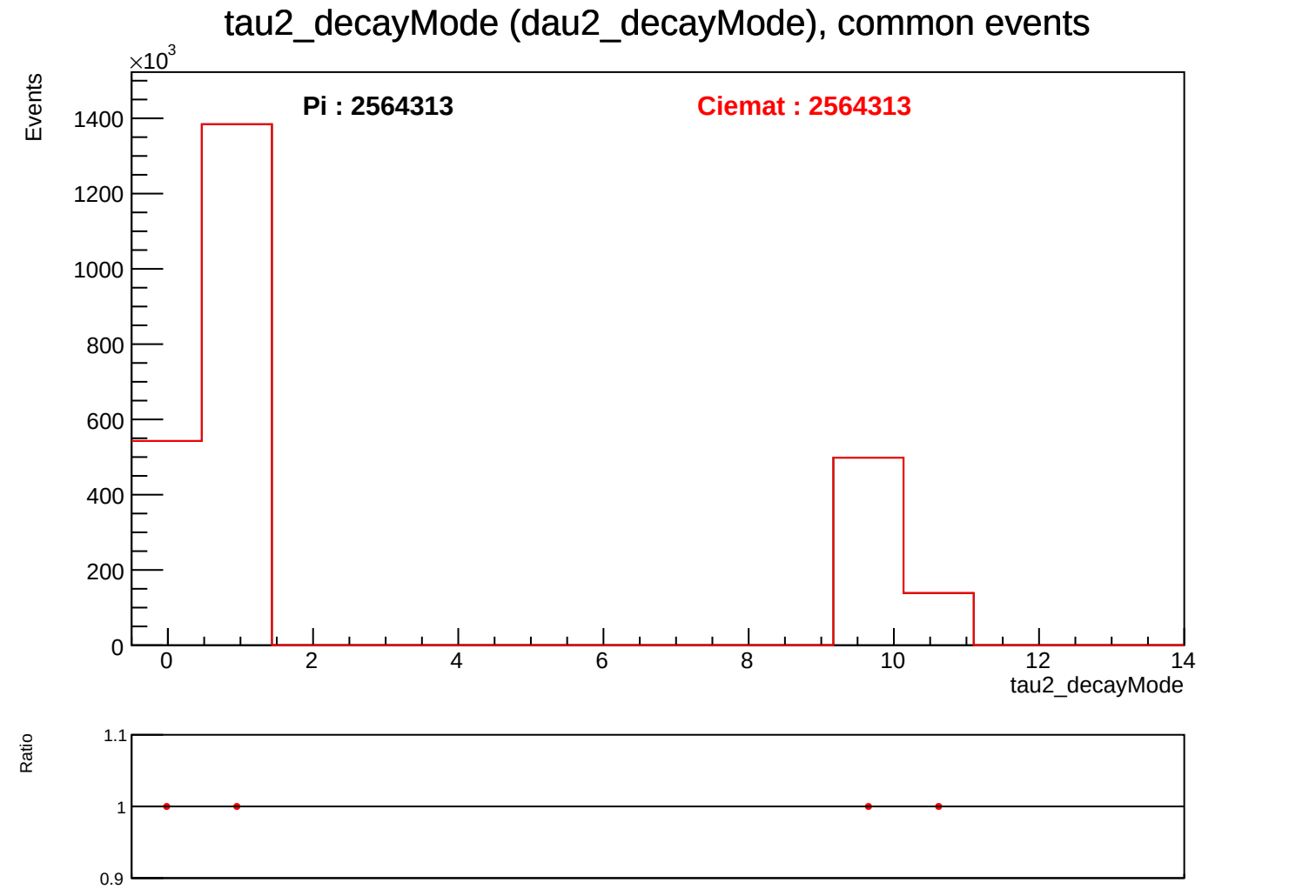

tau1_decayMode (dau1_decayMode), all events
Pi : 2766973
Ciemat : 2762537
Events
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
2
4
6
8
10
12
14
tau1_decayMode
Ratio
1.1
1
0.9

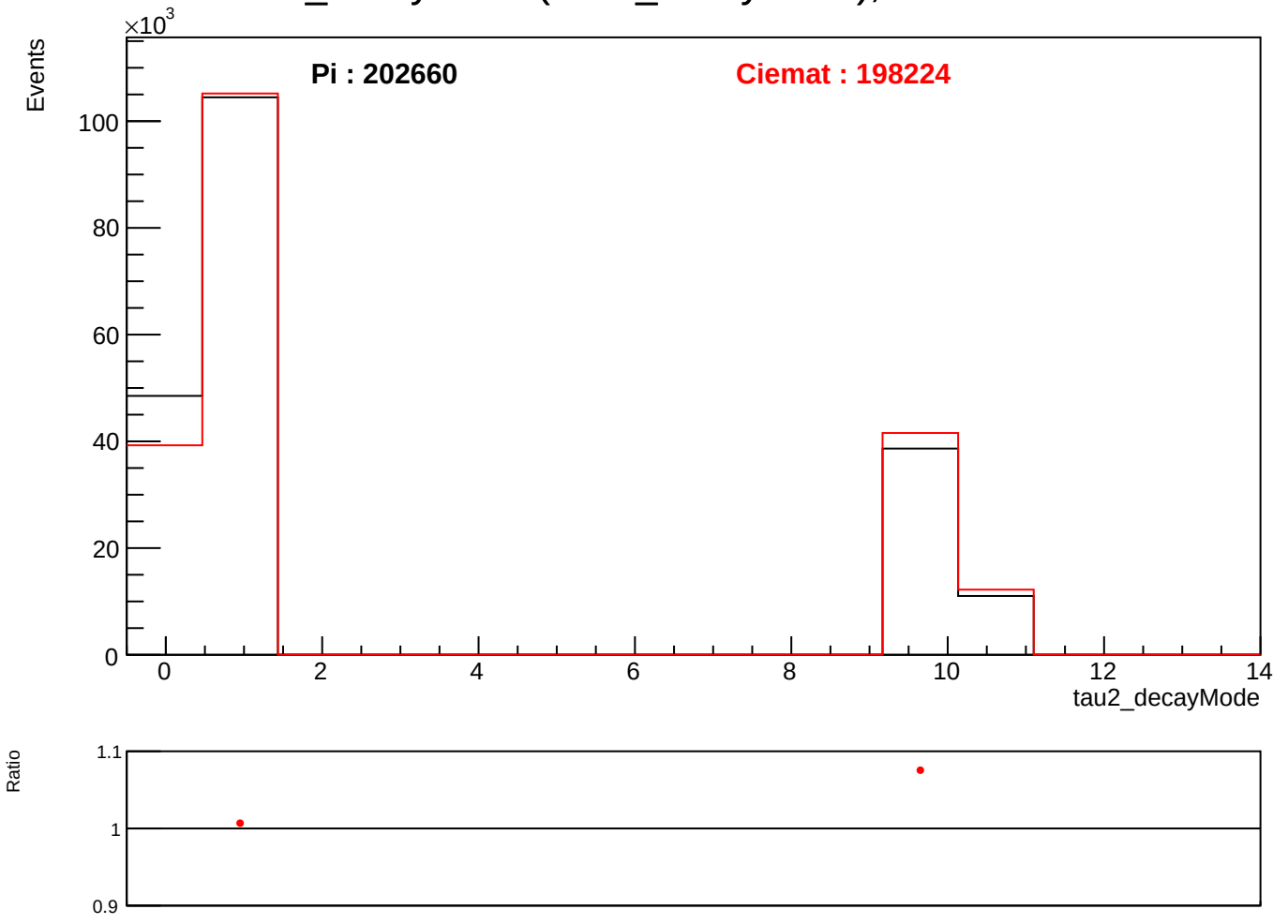

tau1_decayMode (dau1_decayMode), common events
Pi : 2564313
Ciemat : 2564313
Events
tau1_decayMode
Ratio

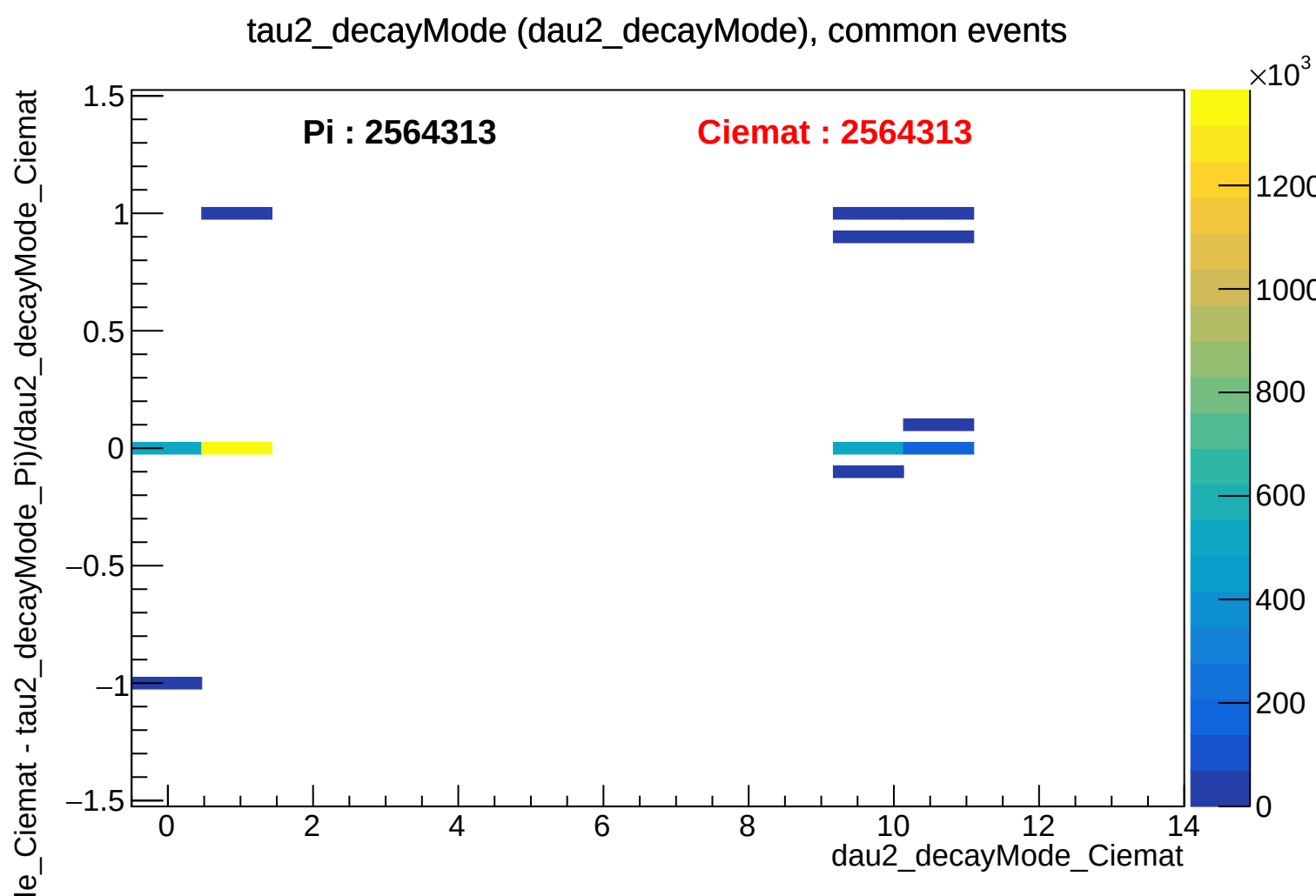

tau1_decayMode (dau1_decayMode), different events
Pi : 202660
Ciemat : 198224
Events
tau1_decayMode
Ratio
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
0
2
4
6
8
10
12
14

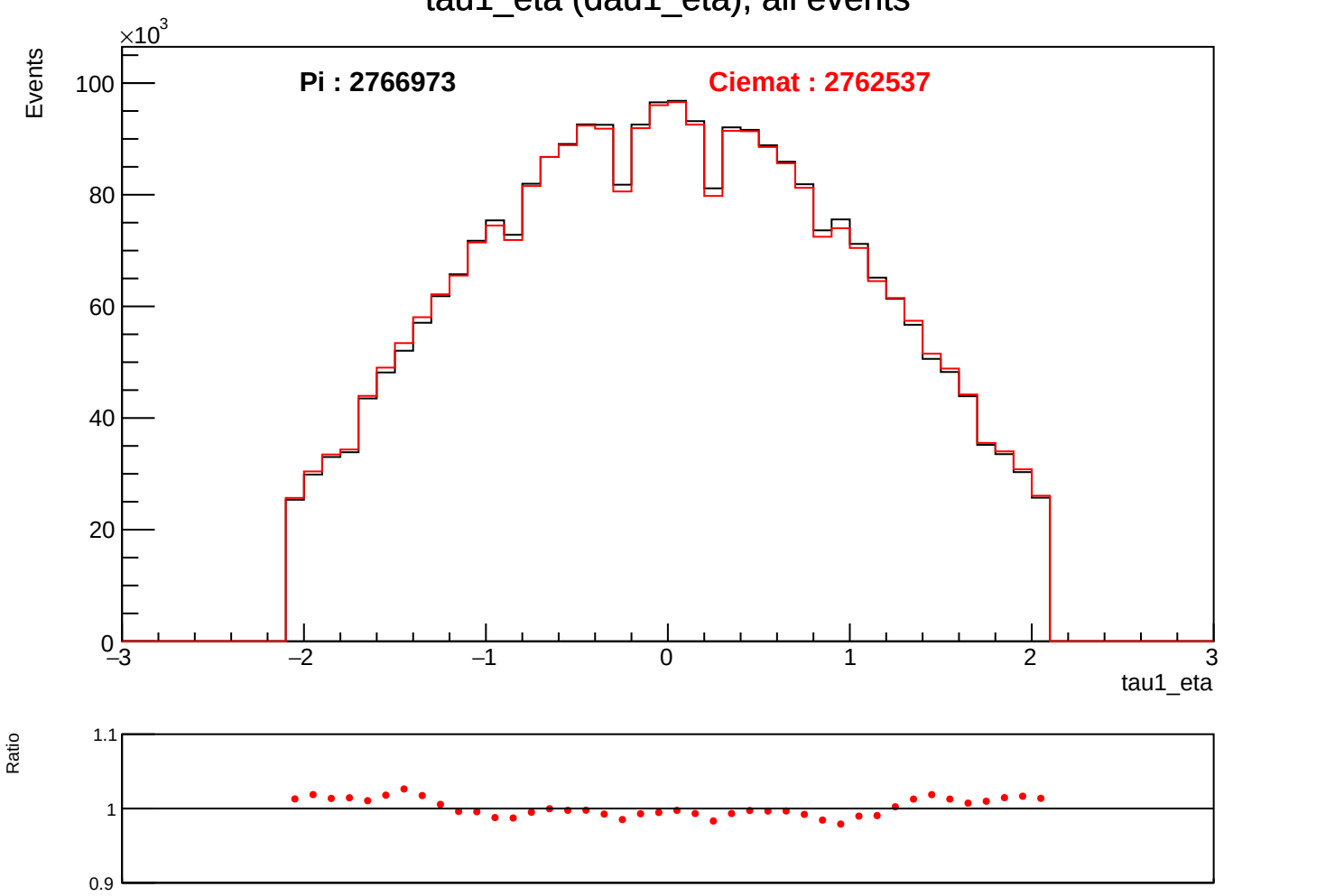

tau1_decayMode (dau1_decayMode), common events
Pi : 2564313
Ciemat : 2564313
1.5
1
0.5
0
−0.5
−1
−1.5
0
2
4
6
8
10
12
14
dau1_decayMode_Ciemat
0.1
0.08
0.06
0.04
0.02
0
−0.1
le_Ciemat - tau1_decayMode_Pi)/dau1_decayMode_Ciemat

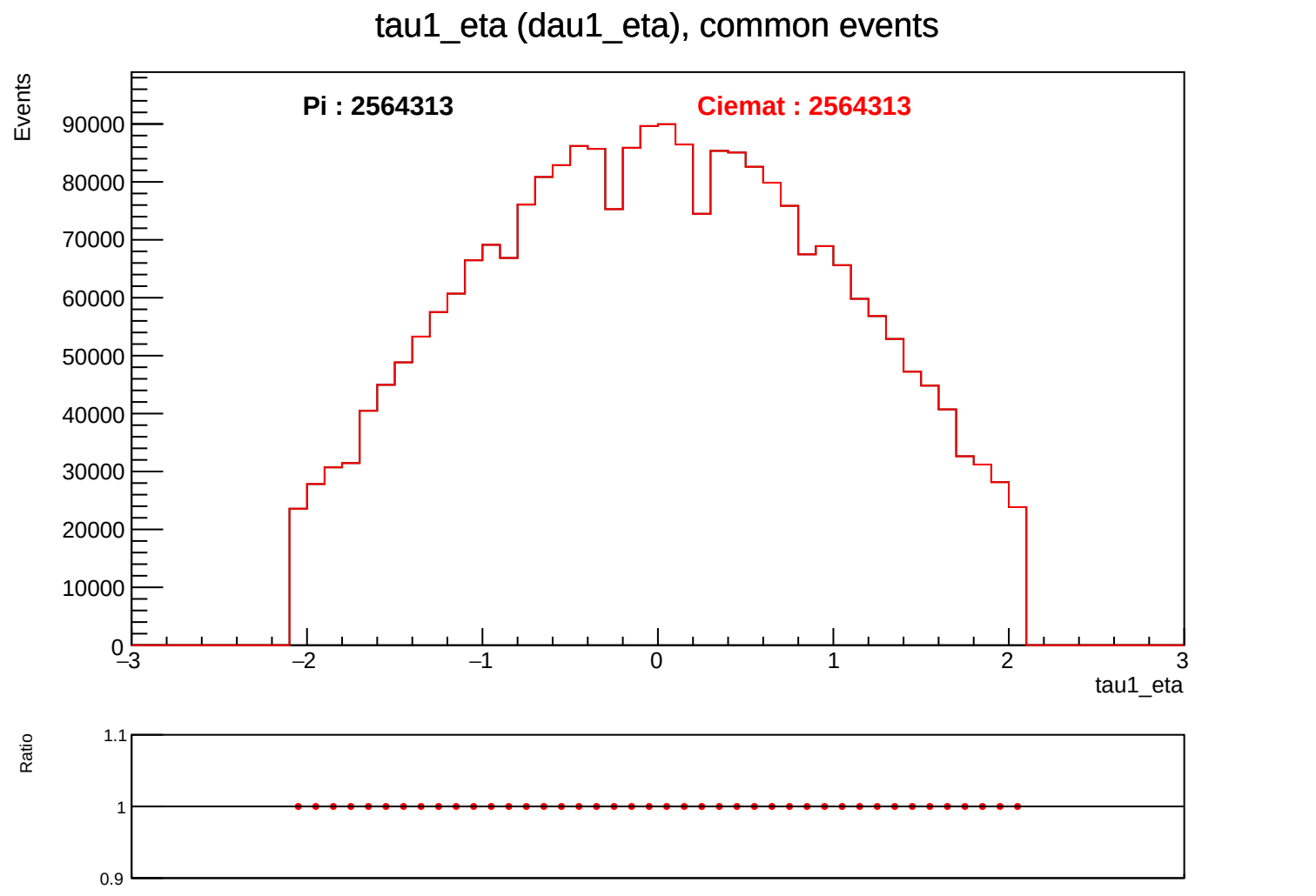

tau2_decayMode (dau2_decayMode), all events
Events
×10^3
1600
1400
1200
1000
800
600
400
200
0
Pi : 2766973
Ciemat : 2762537
0
2
4
6
8
10
12
14
tau2_decayMode
Ratio
1.1
1
0.9

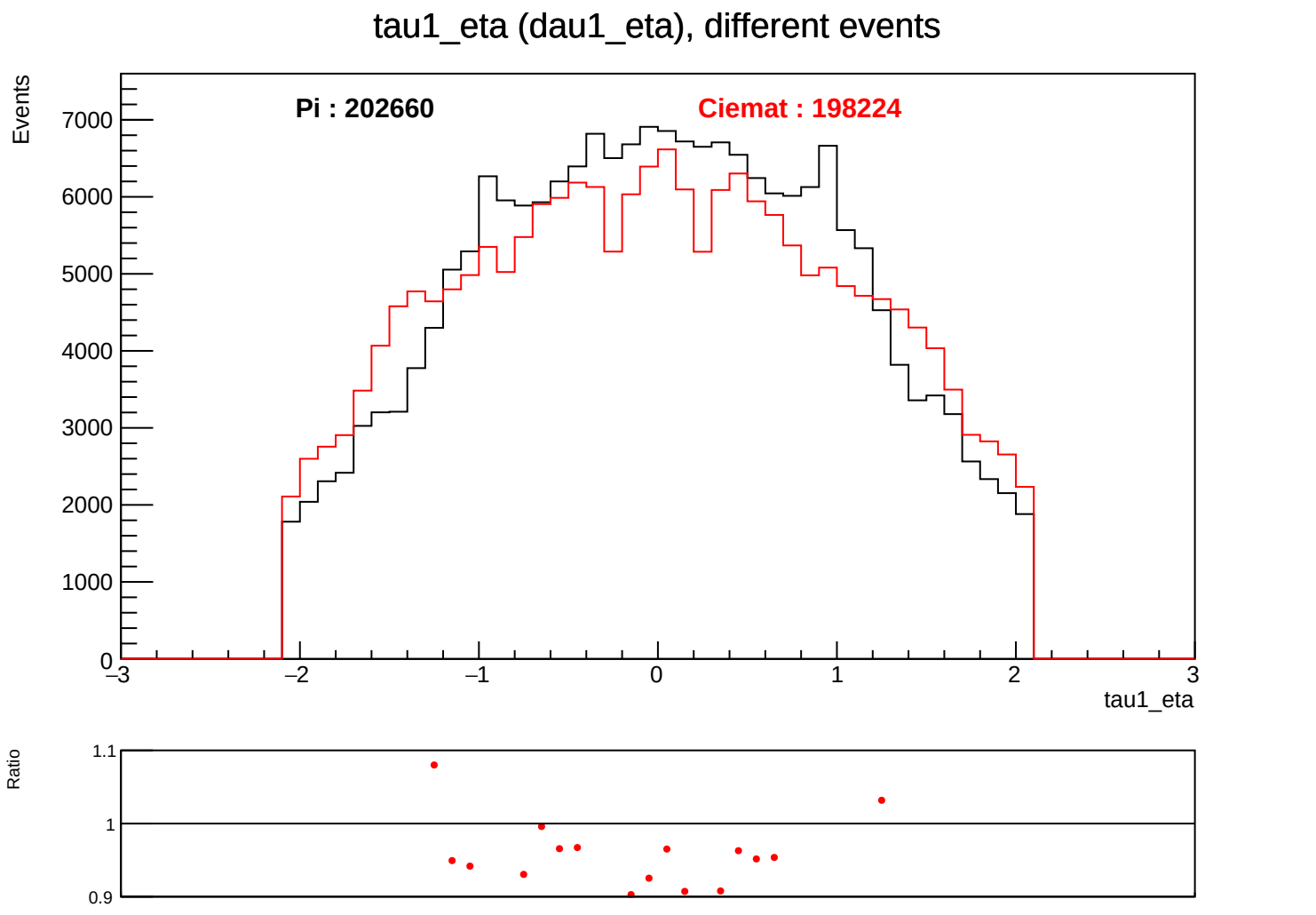

tau2_decayMode (dau2_decayMode), common events
Events
×10^3
Pi : 2564313
Ciemat : 2564313
1400
1200
1000
800
600
400
200
0
0
2
4
6
8
10
12
14
tau2_decayMode
Ratio
1.1
1
0.9

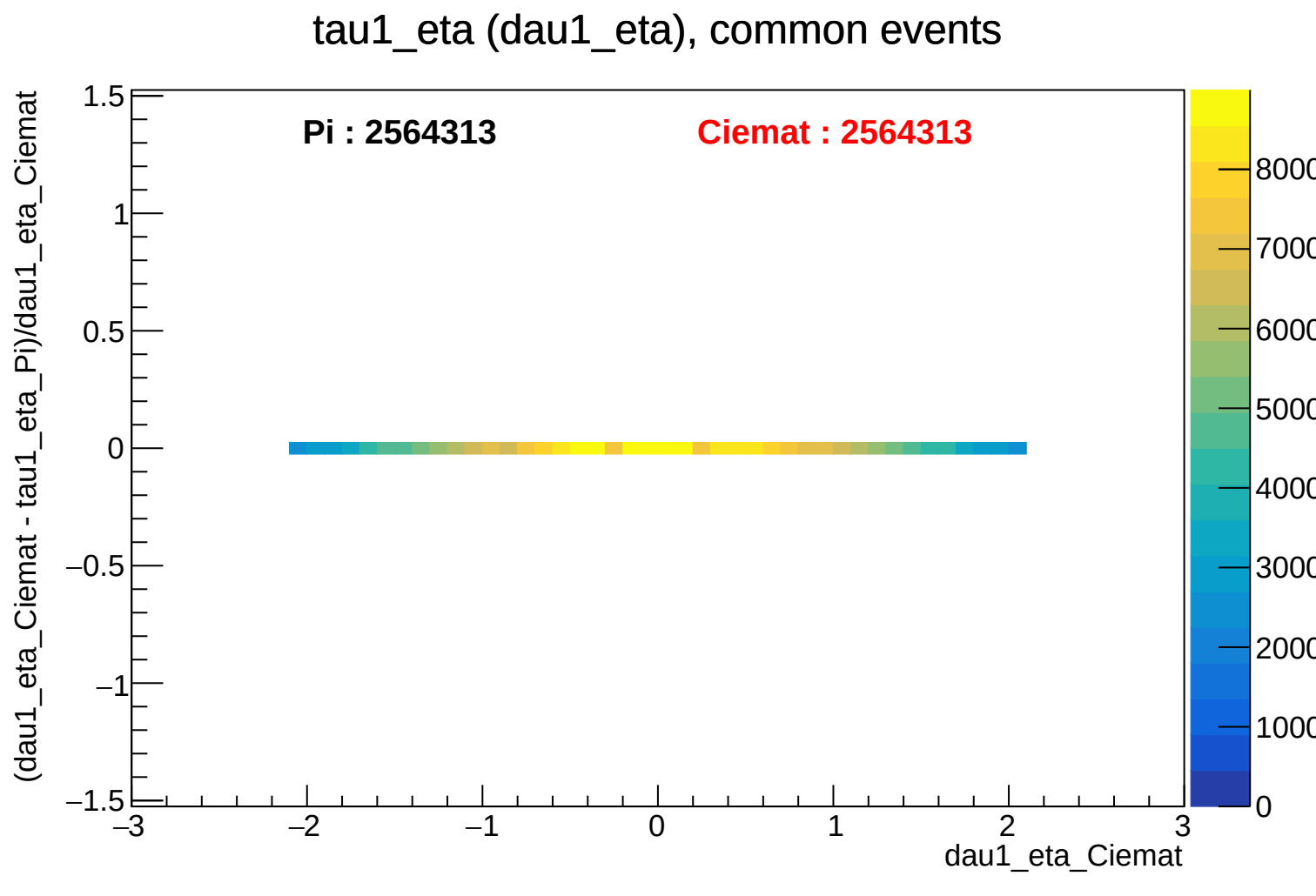

tau2_decayMode (dau2_decayMode), different events
Events
×10^3
Pi : 202660
Ciemat : 198224
100
80
60
40
20
0
0
2
4
6
8
10
12
14
tau2_decayMode
Ratio
1.1
1
0.9

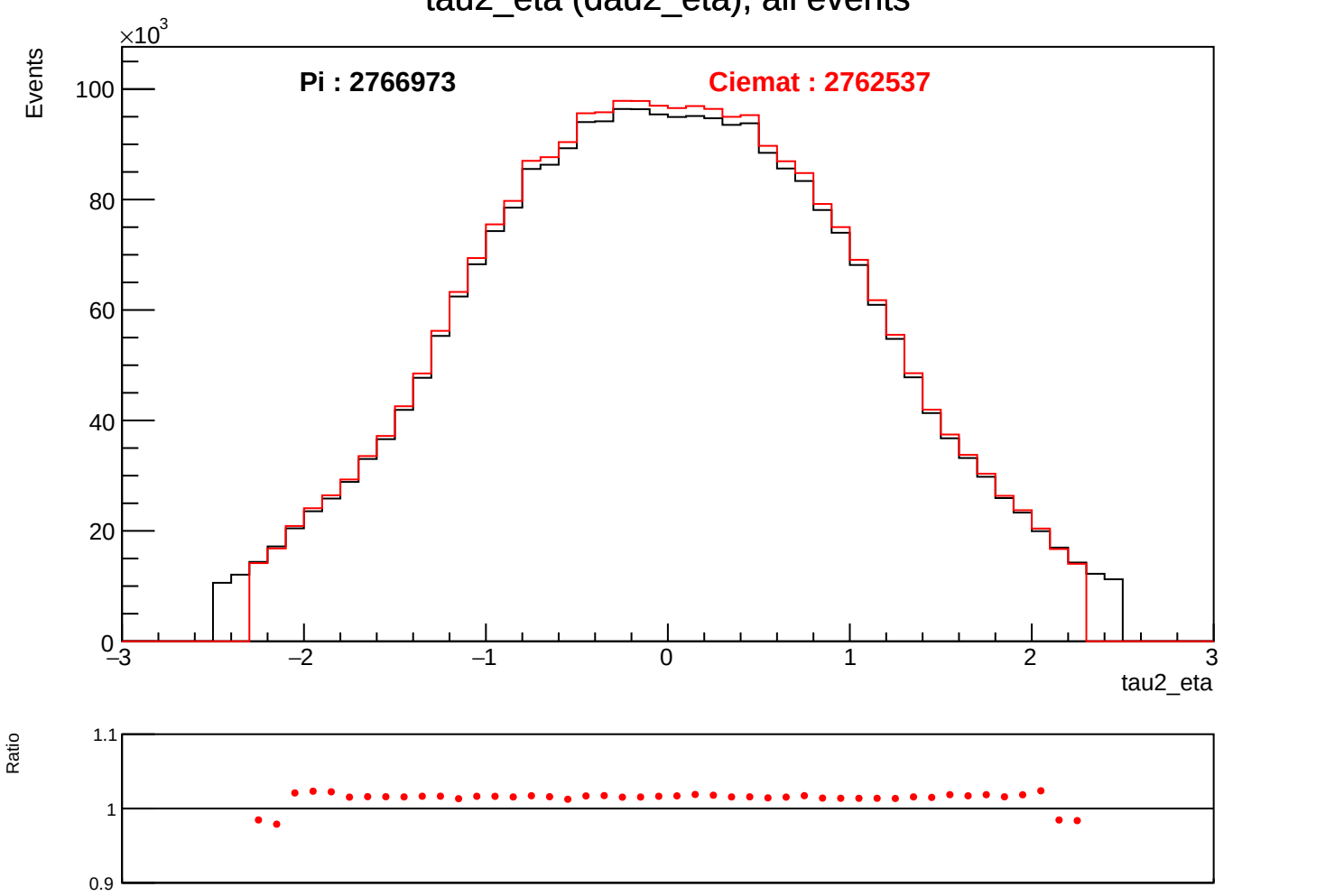

tau2_decayMode (dau2_decayMode), common events
Pi : 2564313
Ciemat : 2564313
×10^3
1200
1000
800
600
400
200
0
1.5
1
0.5
0
−0.5
−1
−1.5
0
2
4
6
8
10
12
14
dau2_decayMode_Ciemat
le_Ciemat - tau2_decayMode_Pi)/dau2_decayMode_Ciemat

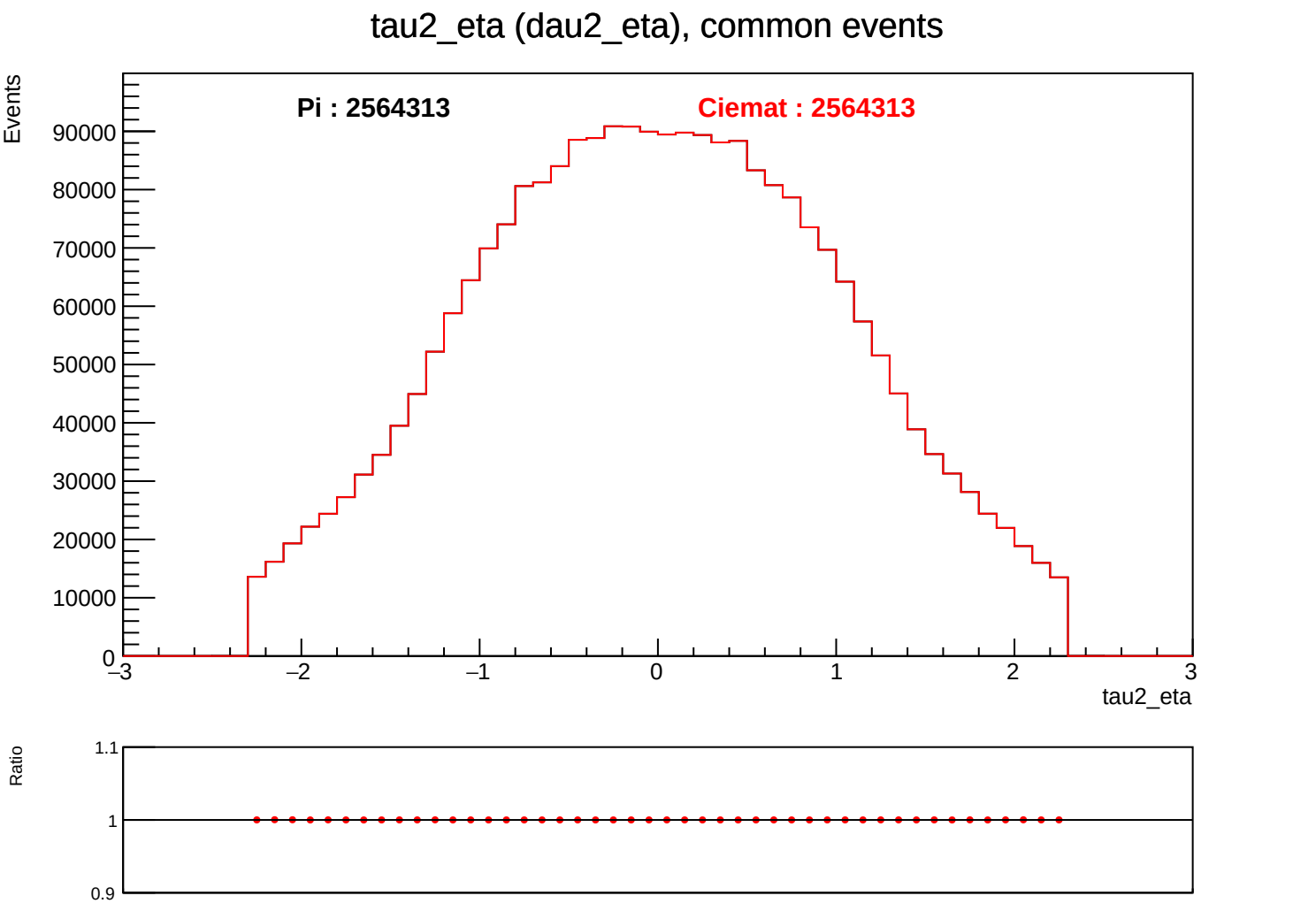

tau1_eta (dau1_eta), all events
Events
×10^3
Pi : 2766973
Ciemat : 2762537
100
80
60
40
20
0
–3
–2
–1
0
1
2
3
tau1_eta
Ratio
1.1
1
0.9

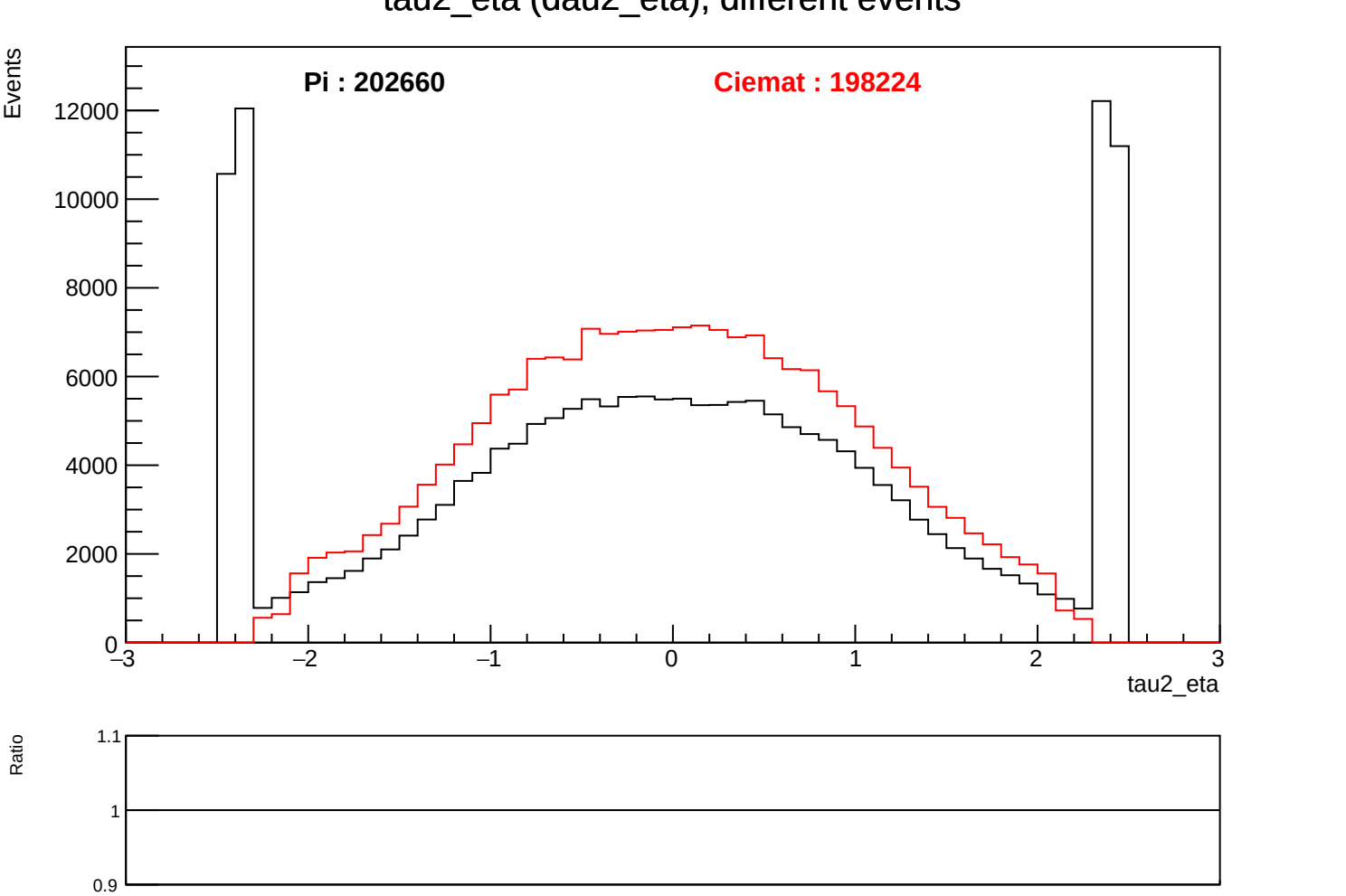

tau1_eta (dau1_eta), common events
Pi : 2564313
Ciemat : 2564313
Events
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
–3
–2
–1
0
1
2
3
tau1_eta
Ratio
1.1
1
0.9

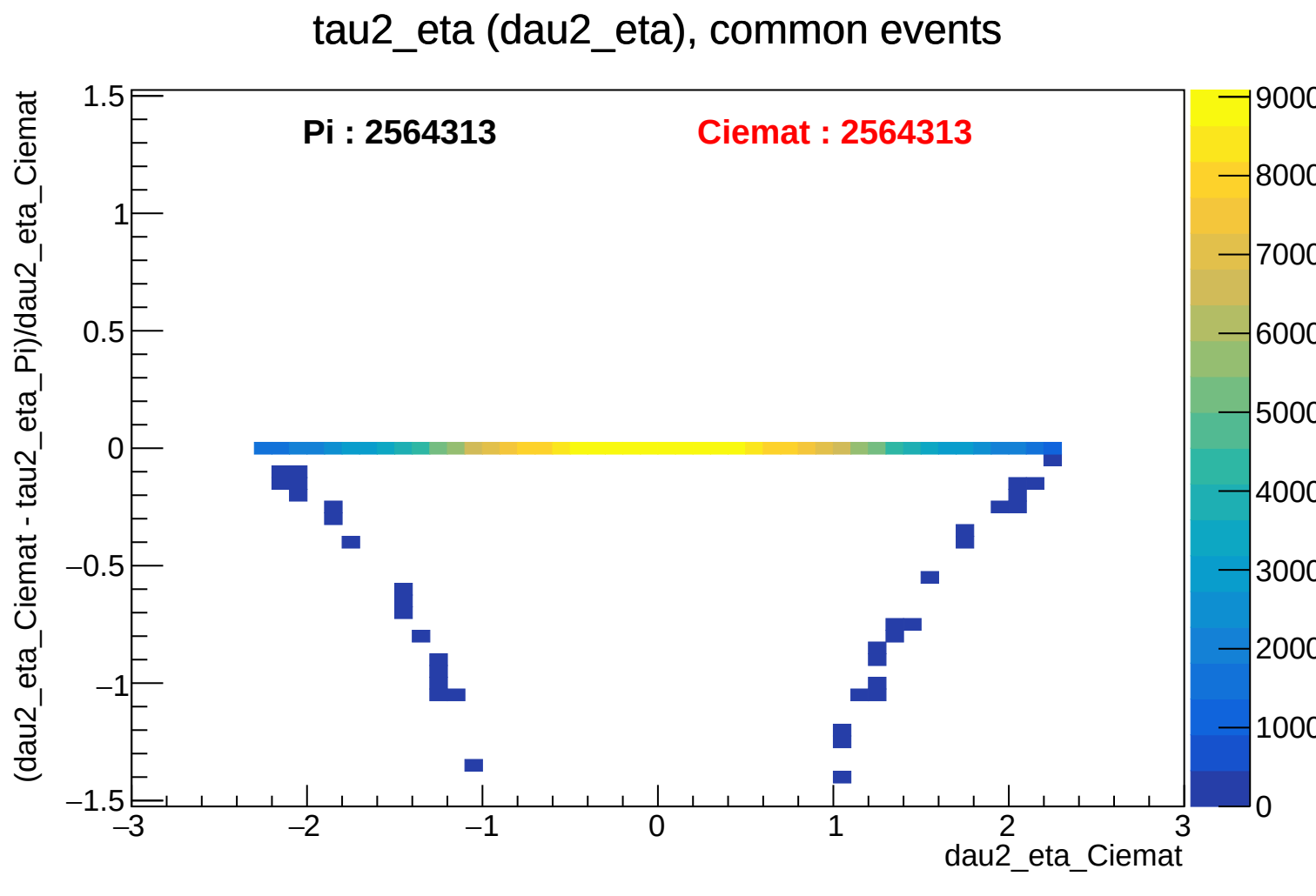

tau1_eta (dau1_eta), different events
Pi : 202660
Ciemat : 198224
Events
7000
6000
5000
4000
3000
2000
1000
0
–3
–2
–1
0
1
2
3
tau1_eta
Ratio
1.1
1
0.9


tau1_eta (dau1_eta), common events
Pi : 2564313
Ciemat : 2564313
(dau1_eta_Ciemat - tau1_eta_Pi)/dau1_eta_Ciemat
dau1_eta_Ciemat
1.5
1
0.5
0
−0.5
−1
−1.5
−3
−2
−1
0
1
2
3
8000
7000
6000
5000
4000
3000
2000
1000
0


tau2_eta (dau2_eta), all events
Events
×10^3
Pi : 2766973
Ciemat : 2762537
100
80
60
40
20
0
–3
–2
–1
0
1
2
3
tau2_eta
Ratio
1.1
1
0.9


tau2_eta (dau2_eta), common events
Pi : 2564313
Ciemat : 2564313
Events
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
–3
–2
–1
0
1
2
3
tau2_eta
Ratio
1.1
1
0.9


tau2_eta (dau2_eta), different events
Pi : 202660
Ciemat : 198224
Events
12000
10000
8000
6000
4000
2000
0
–3
–2
–1
0
1
2
3
tau2_eta
Ratio
1.1
1
0.9


tau2_eta (dau2_eta), common events
Pi : 2564313
Ciemat : 2564313
(dau2_eta_Ciemat - tau2_eta_Pi)/dau2_eta_Ciemat
dau2_eta_Ciemat
1.5
1
0.5
0
−0.5
−1
−1.5
−3
−2
−1
0
1
2
3
9000
8000
7000
6000
5000
4000
3000
2000
1000
0