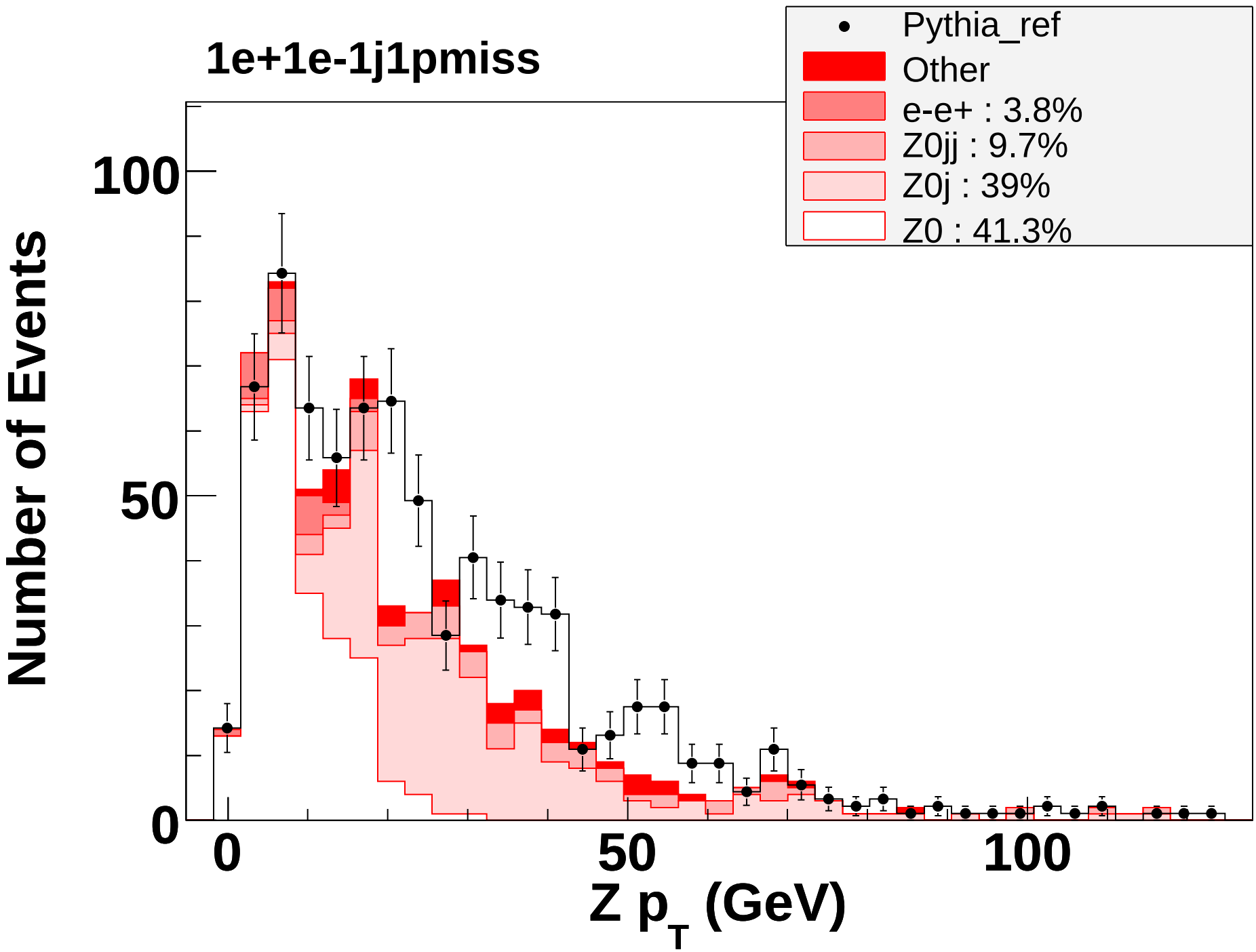
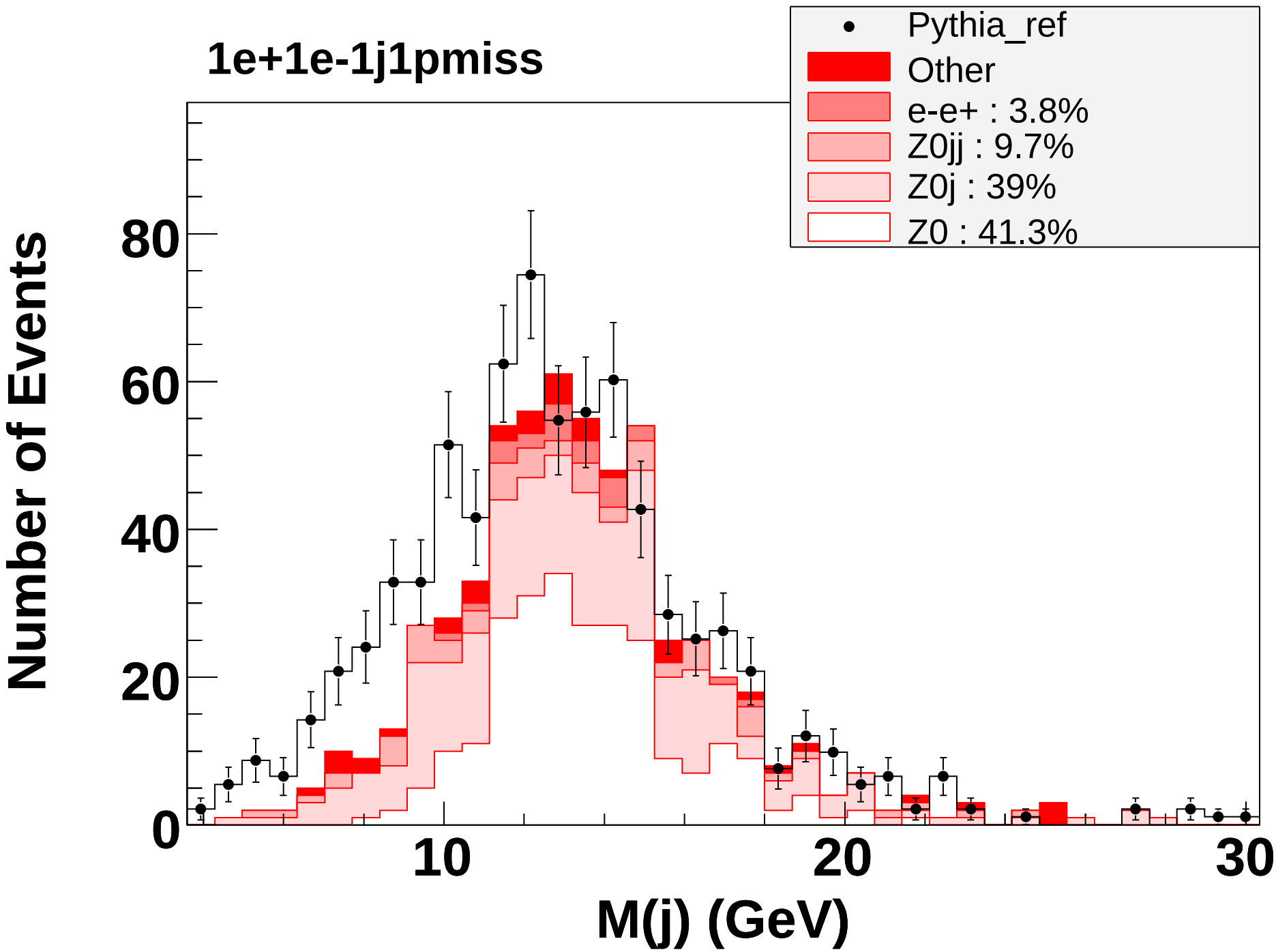
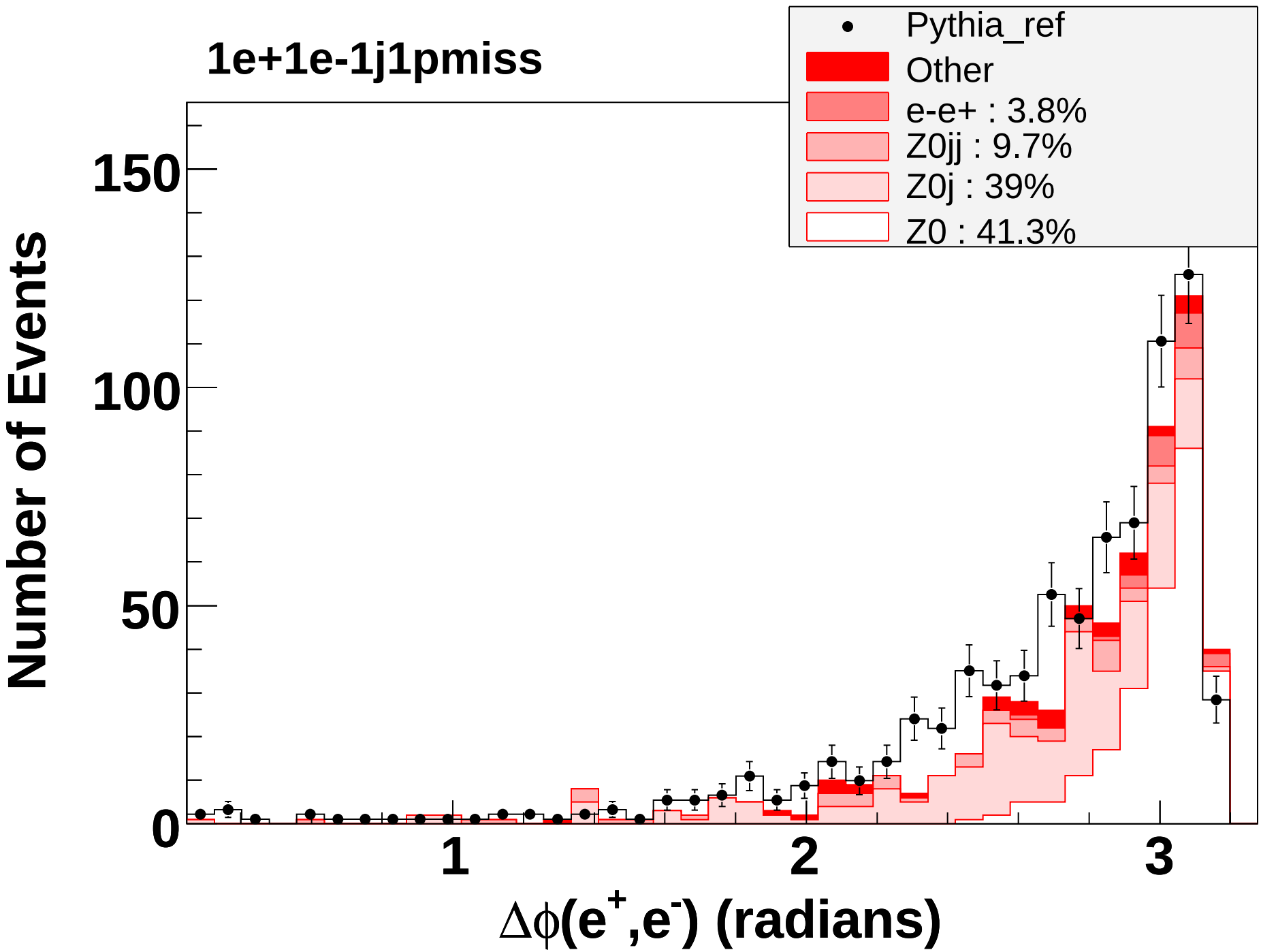
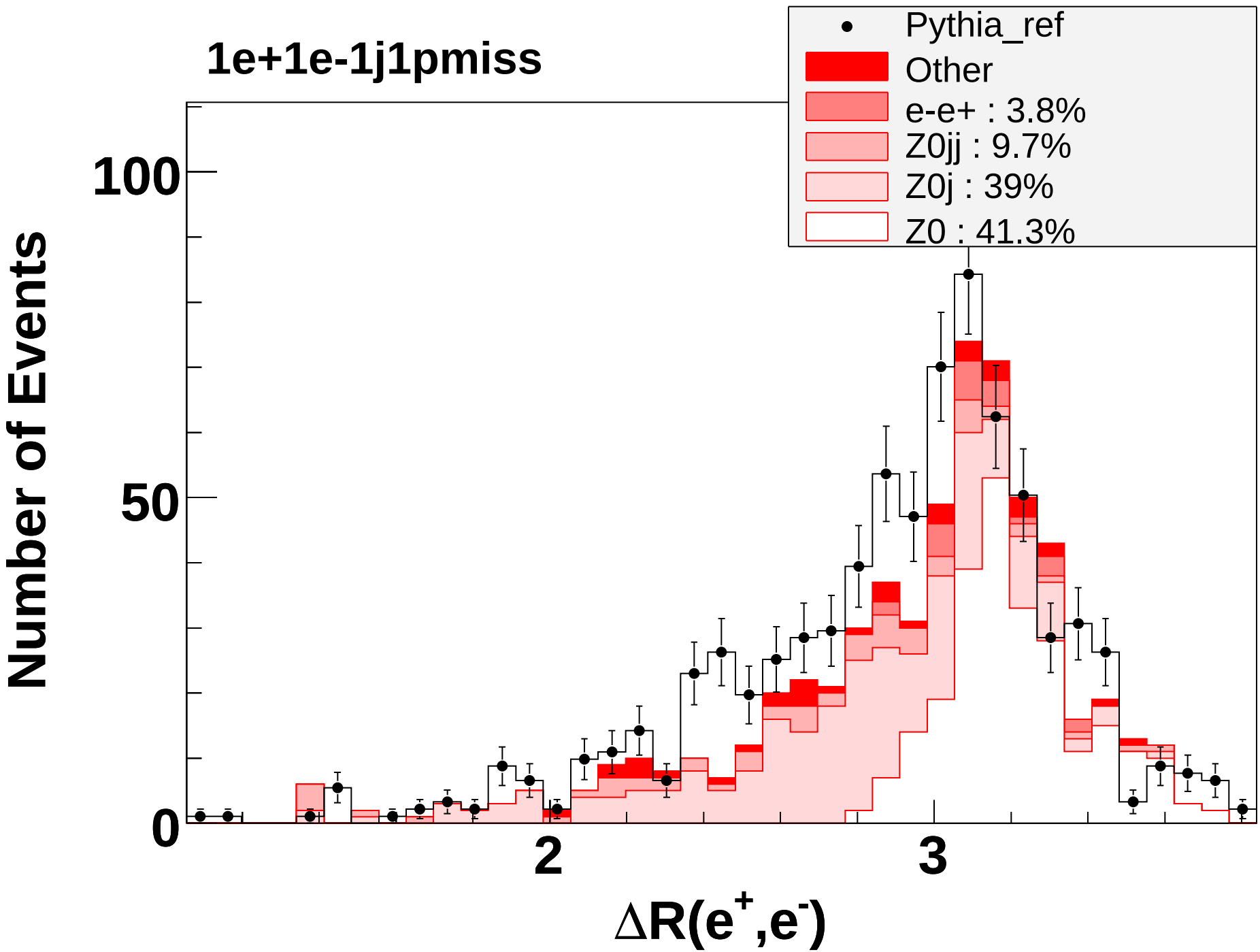
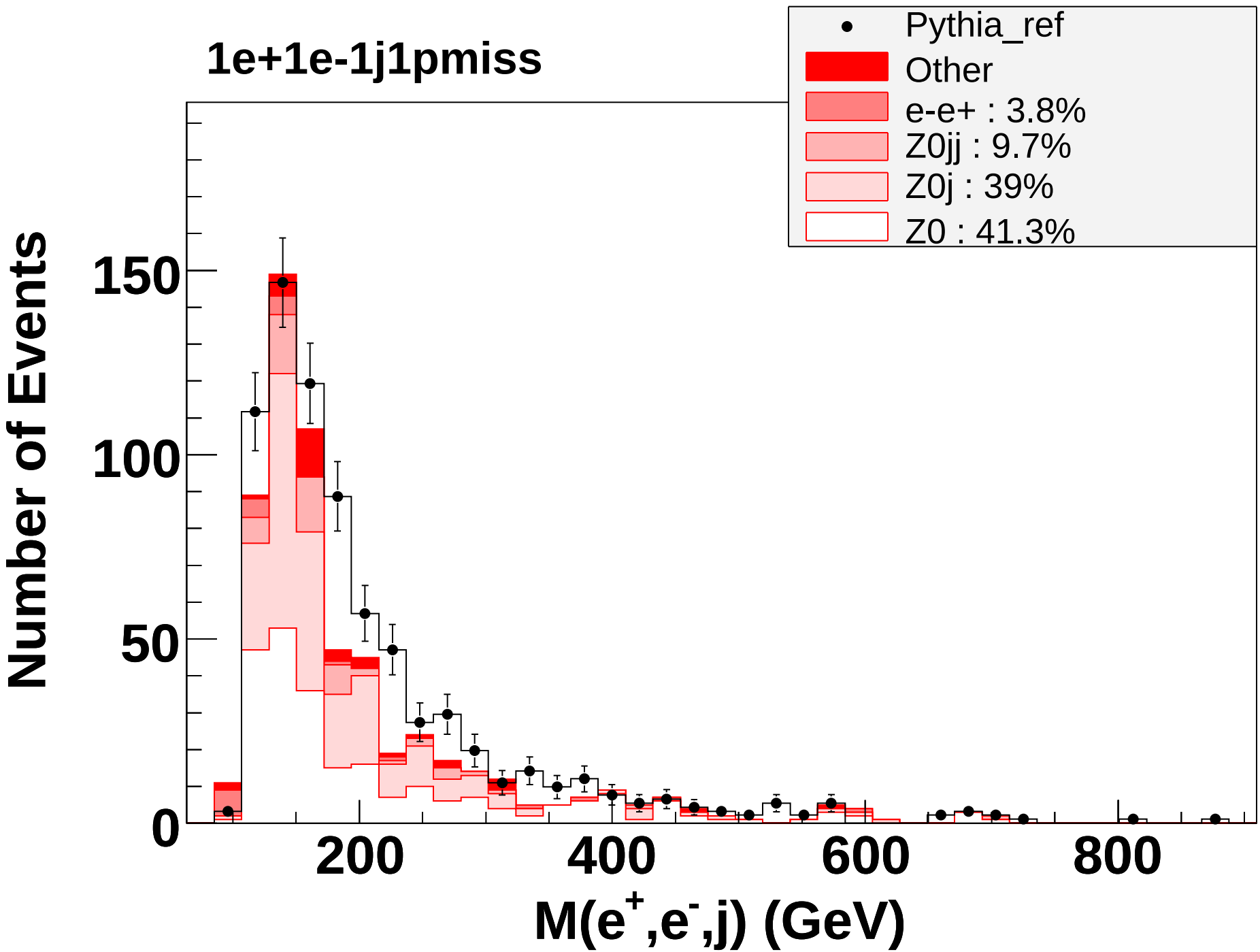
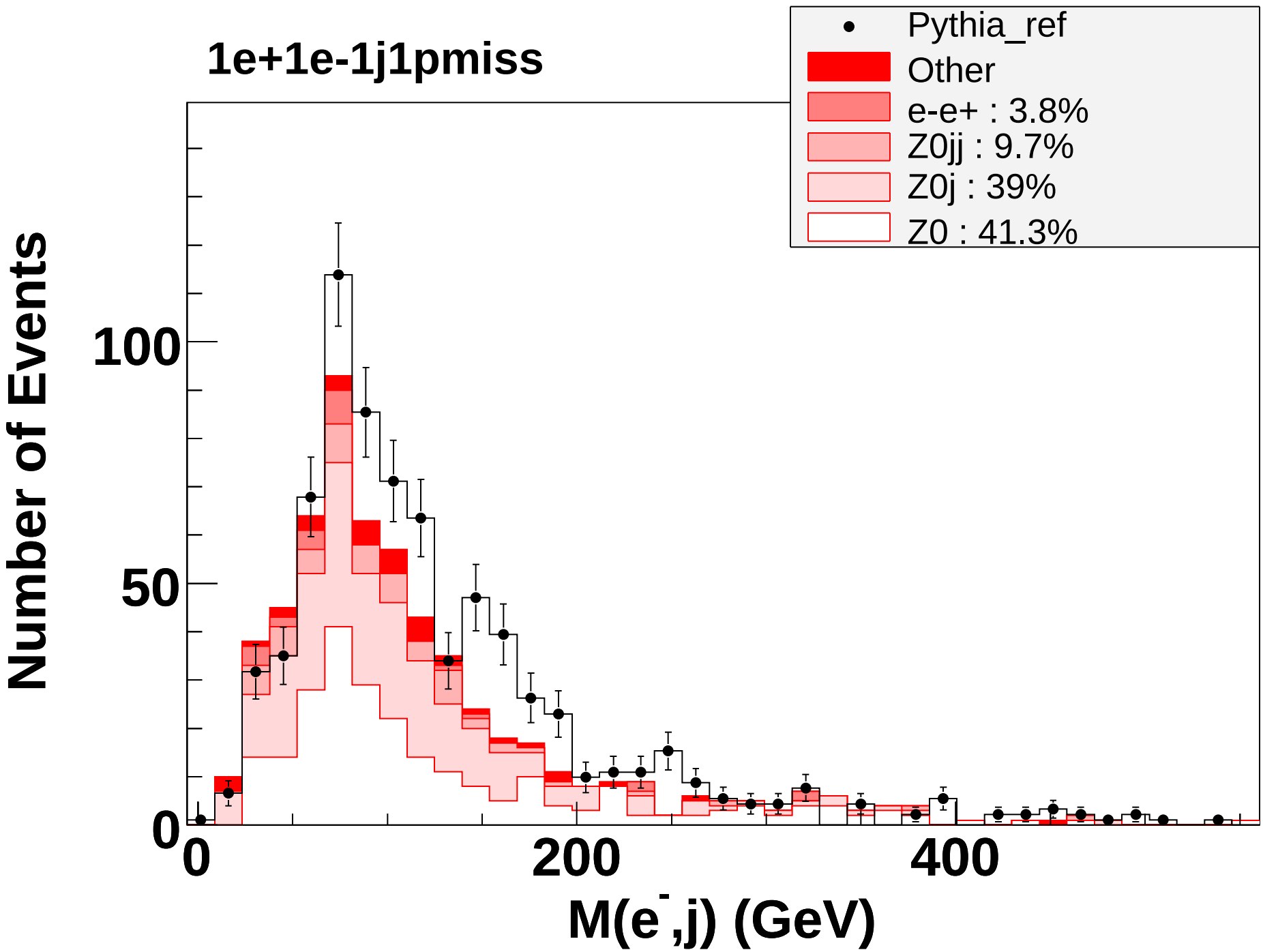

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
50
100
0
50
100
Z p_T (GeV)

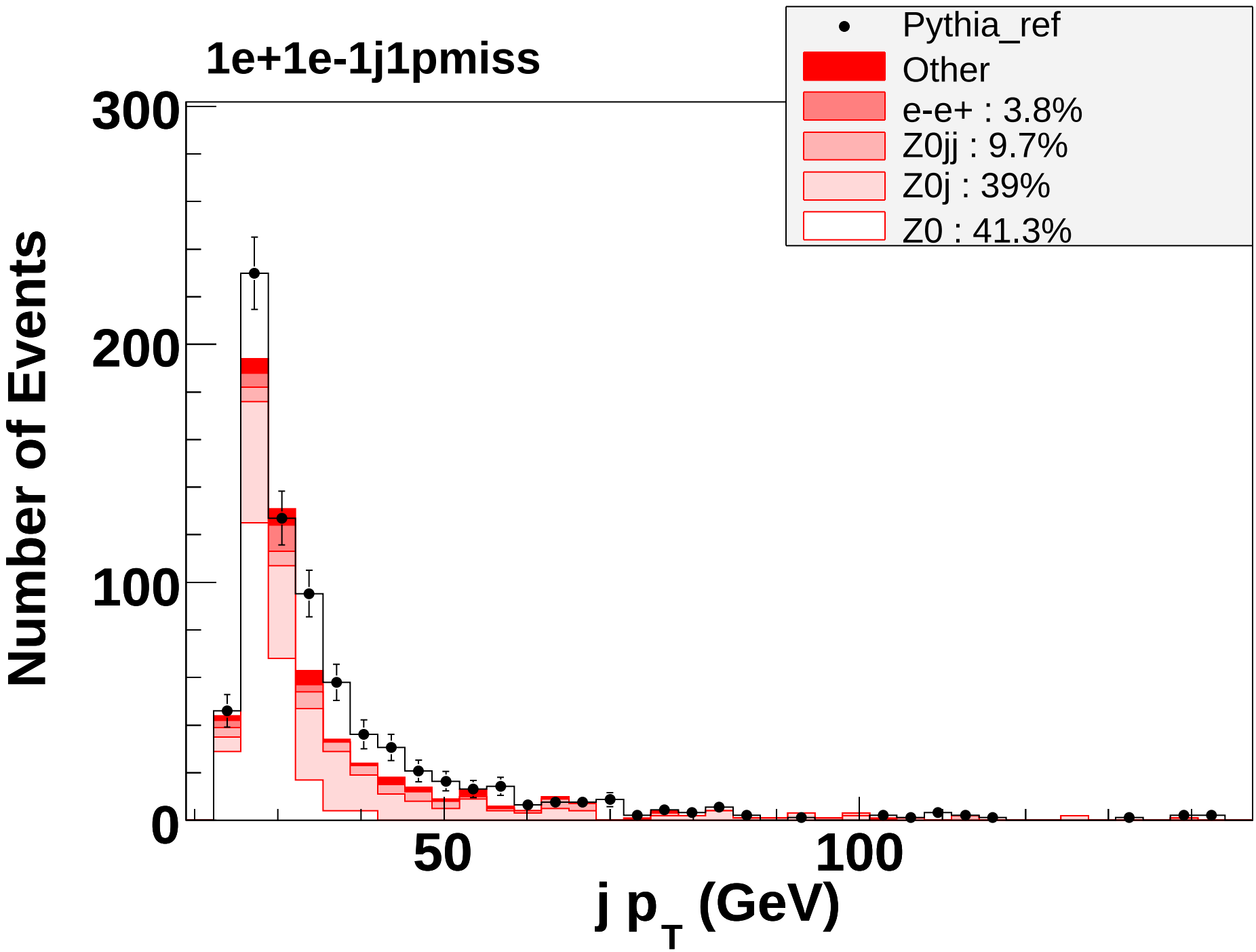

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
80
10
20
30
M(j) (GeV)

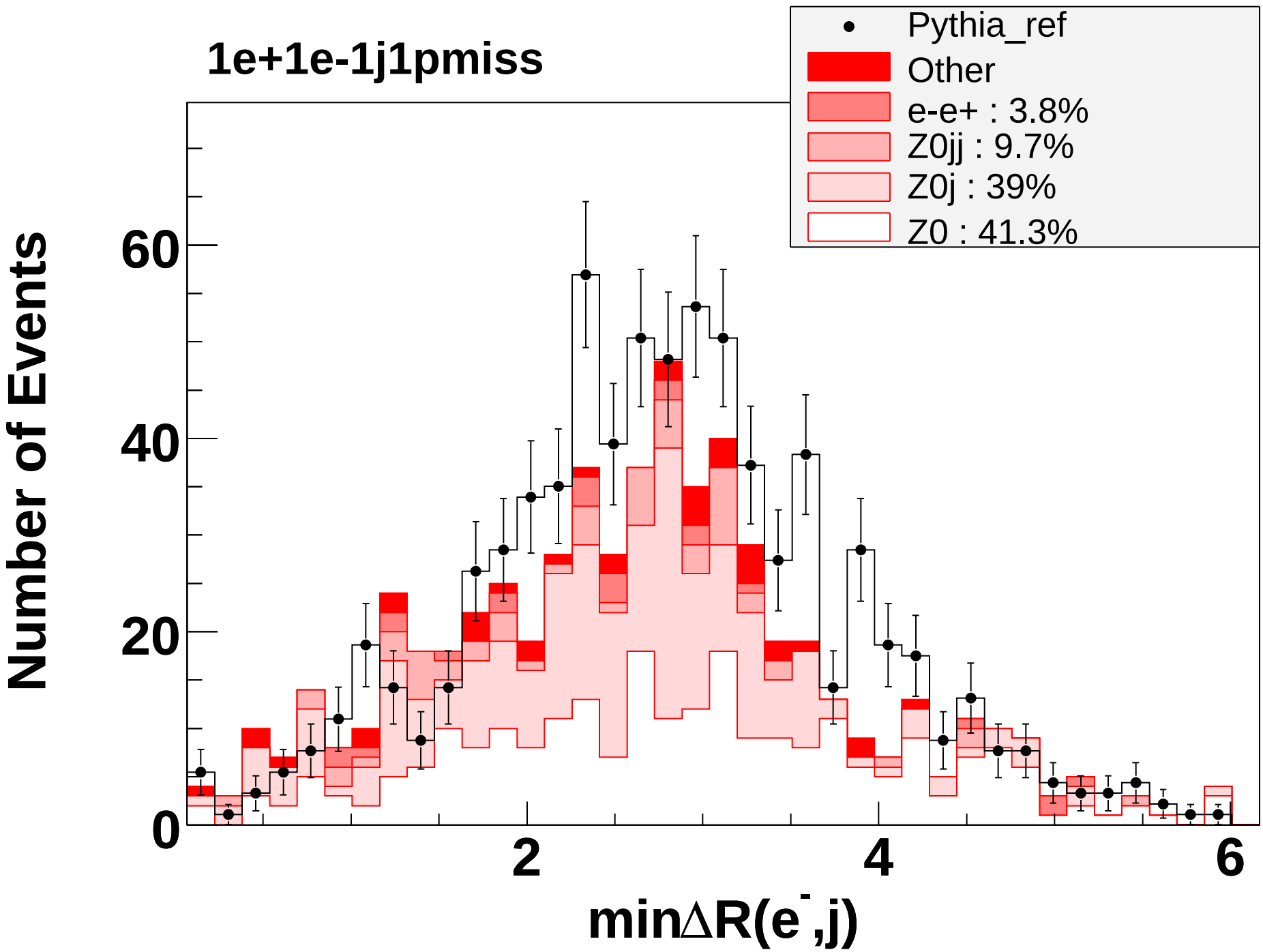

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
150
100
50
0
1
2
3
Δϕ(e+,e-) (radians)

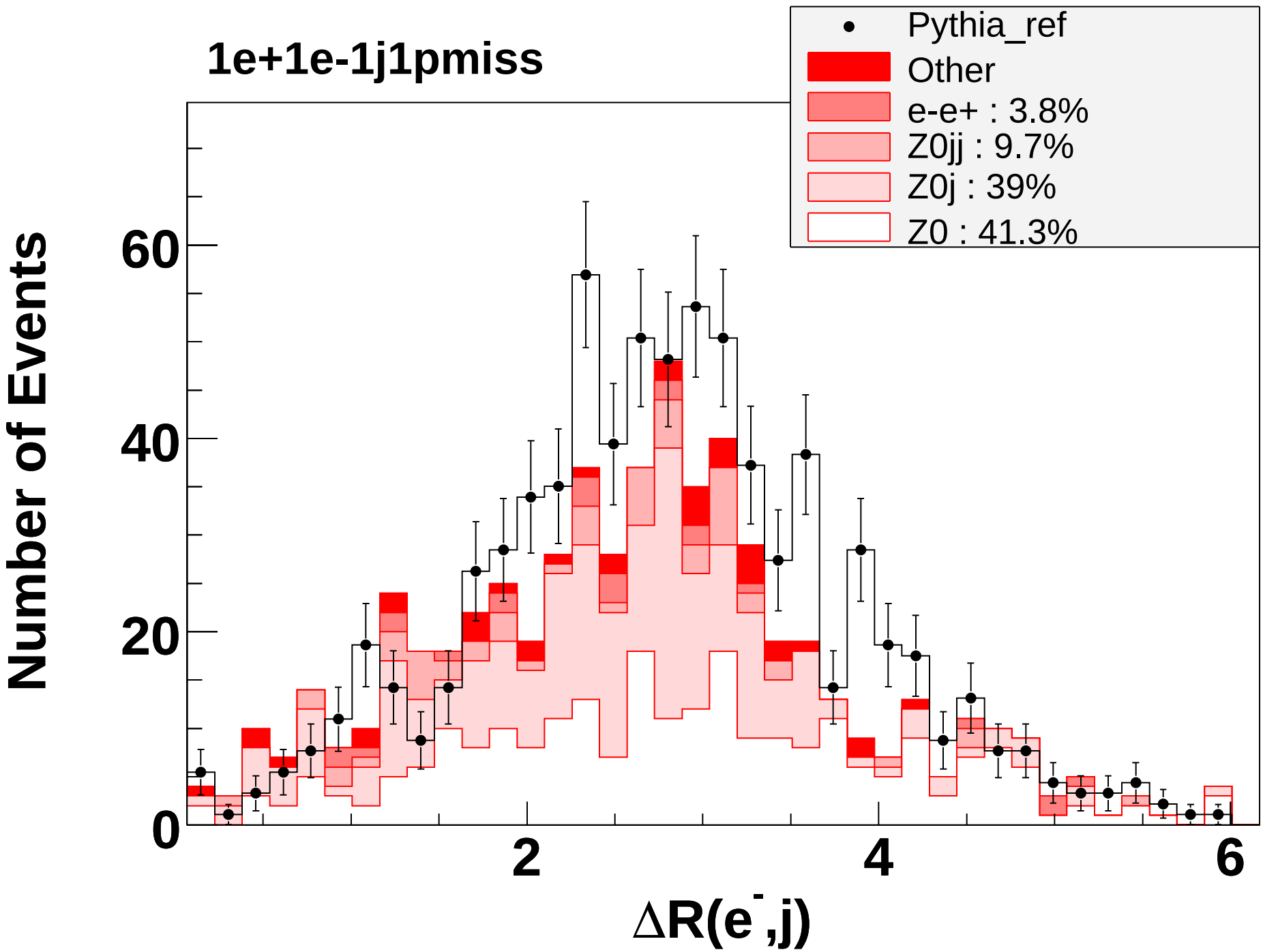

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
100
50
0
2
3
ΔR(e+,e-)

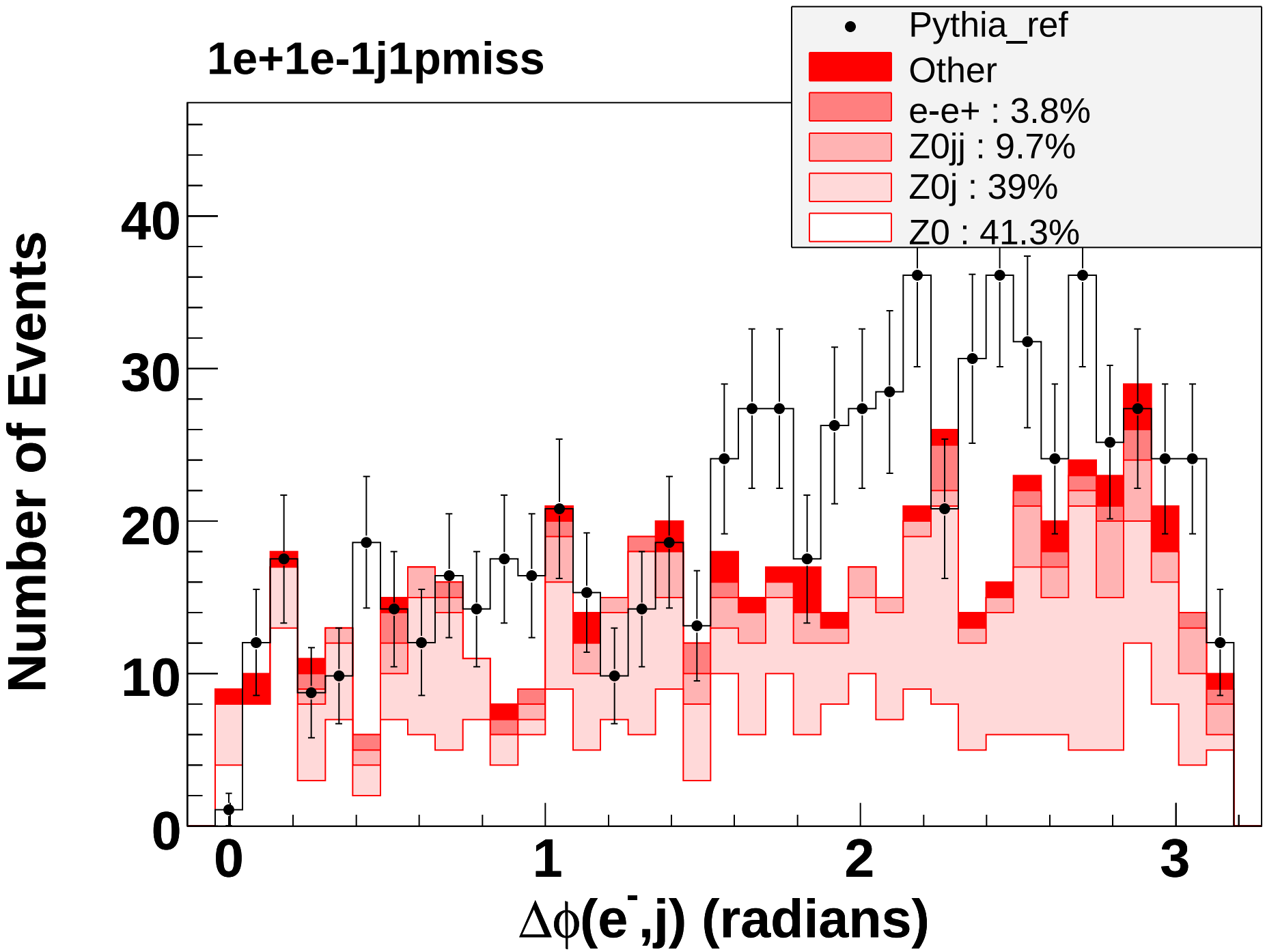

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
50
100
150
200
400
600
800
M(e+,e-,j) (GeV)

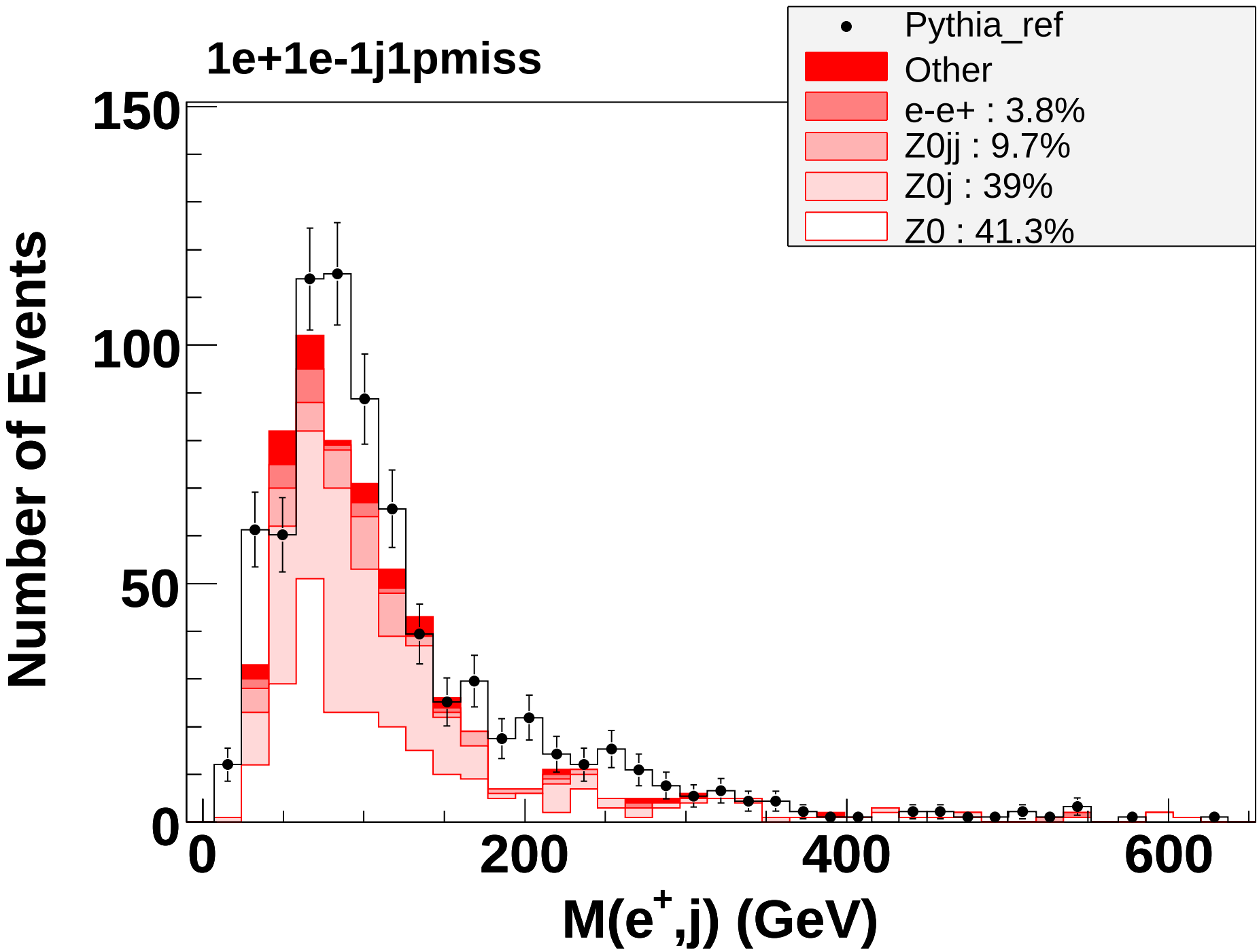

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
50
100
0
200
400
M(e-,j) (GeV)

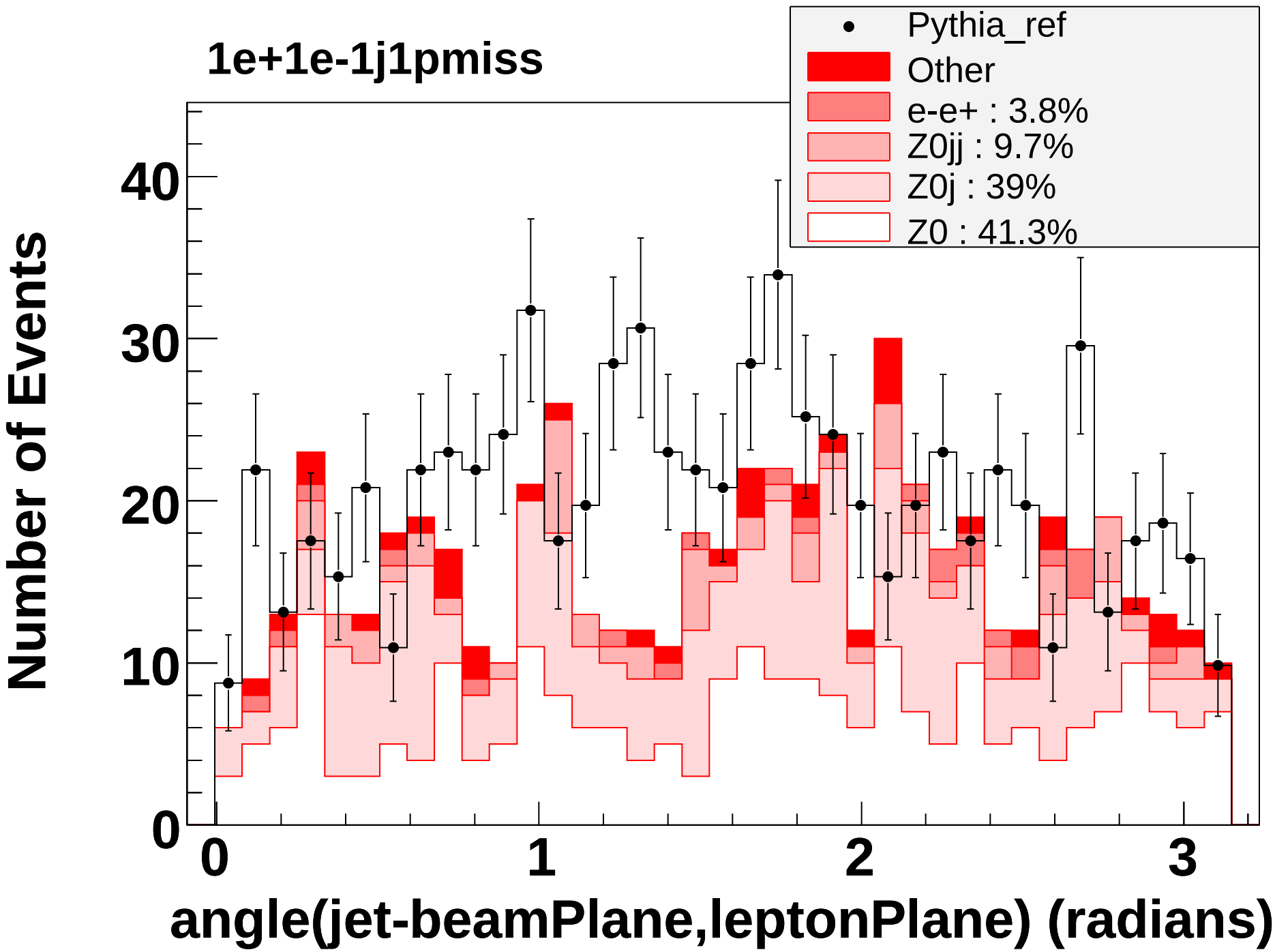

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
300
200
100
0
50
100
j p_T (GeV)

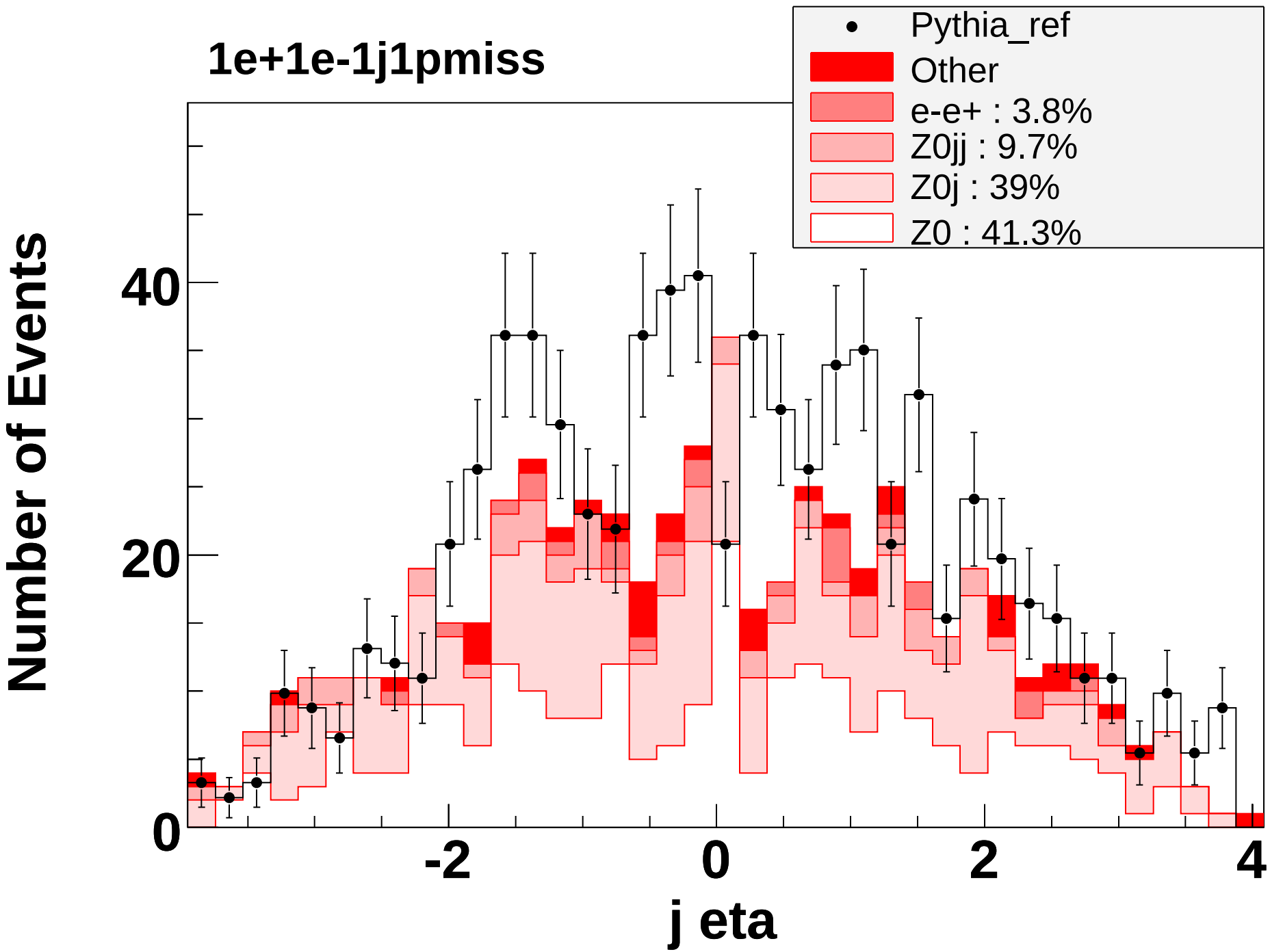

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
2
4
6
minΔR(e⁻,j)

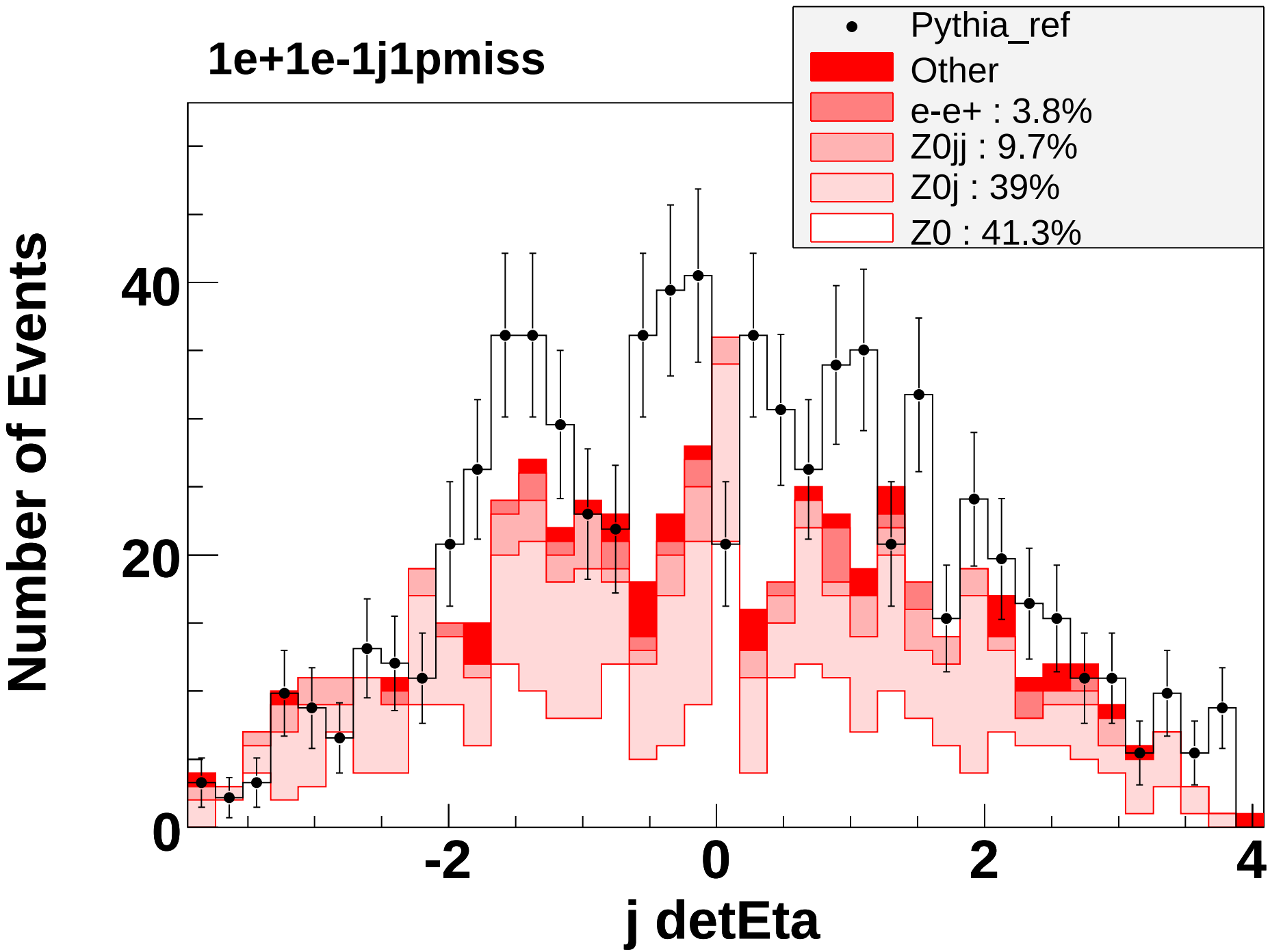

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
2
4
6
ΔR(e⁻,j)

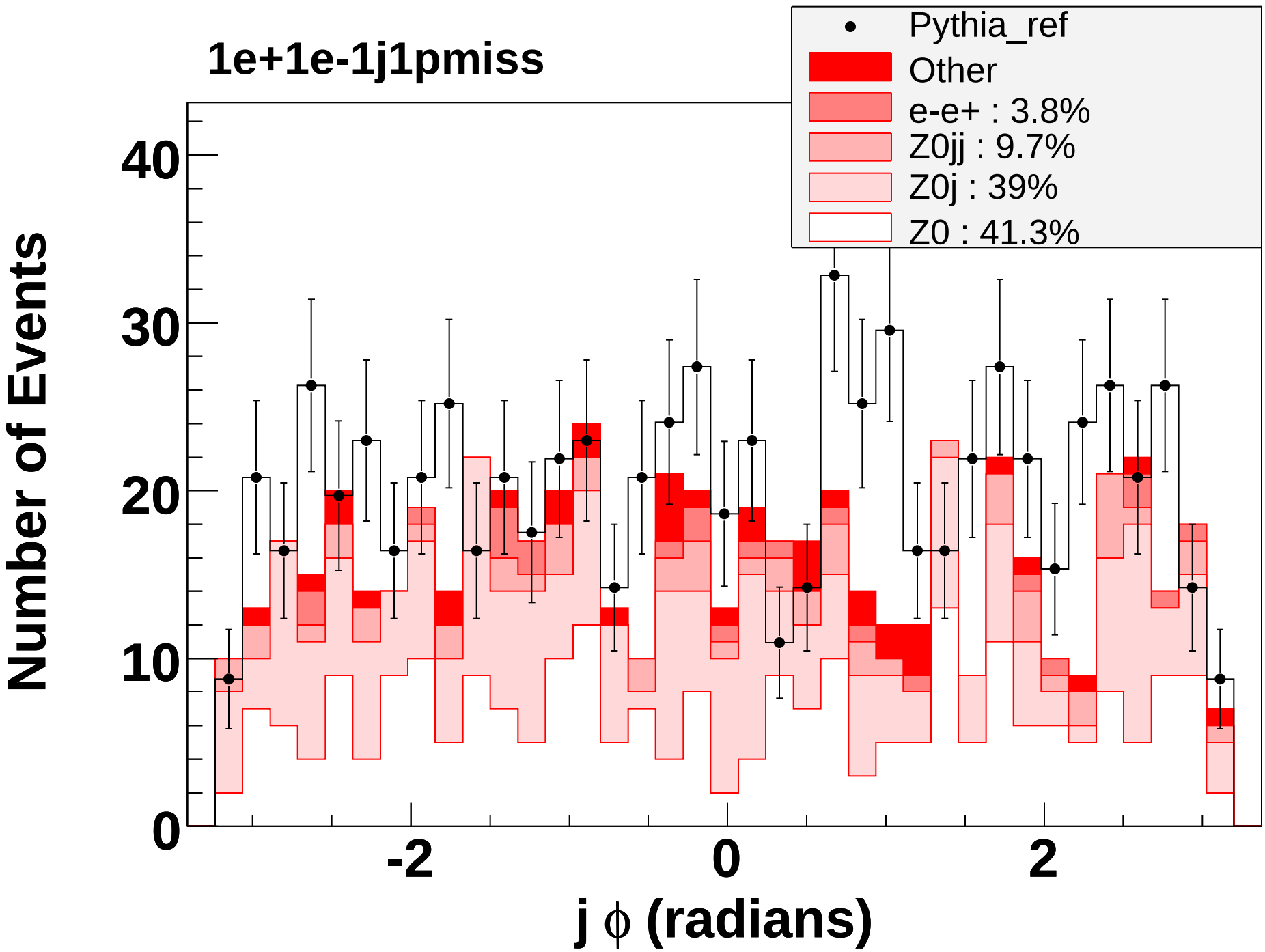

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
0
1
2
3
Δϕ(e⁻,j) (radians)

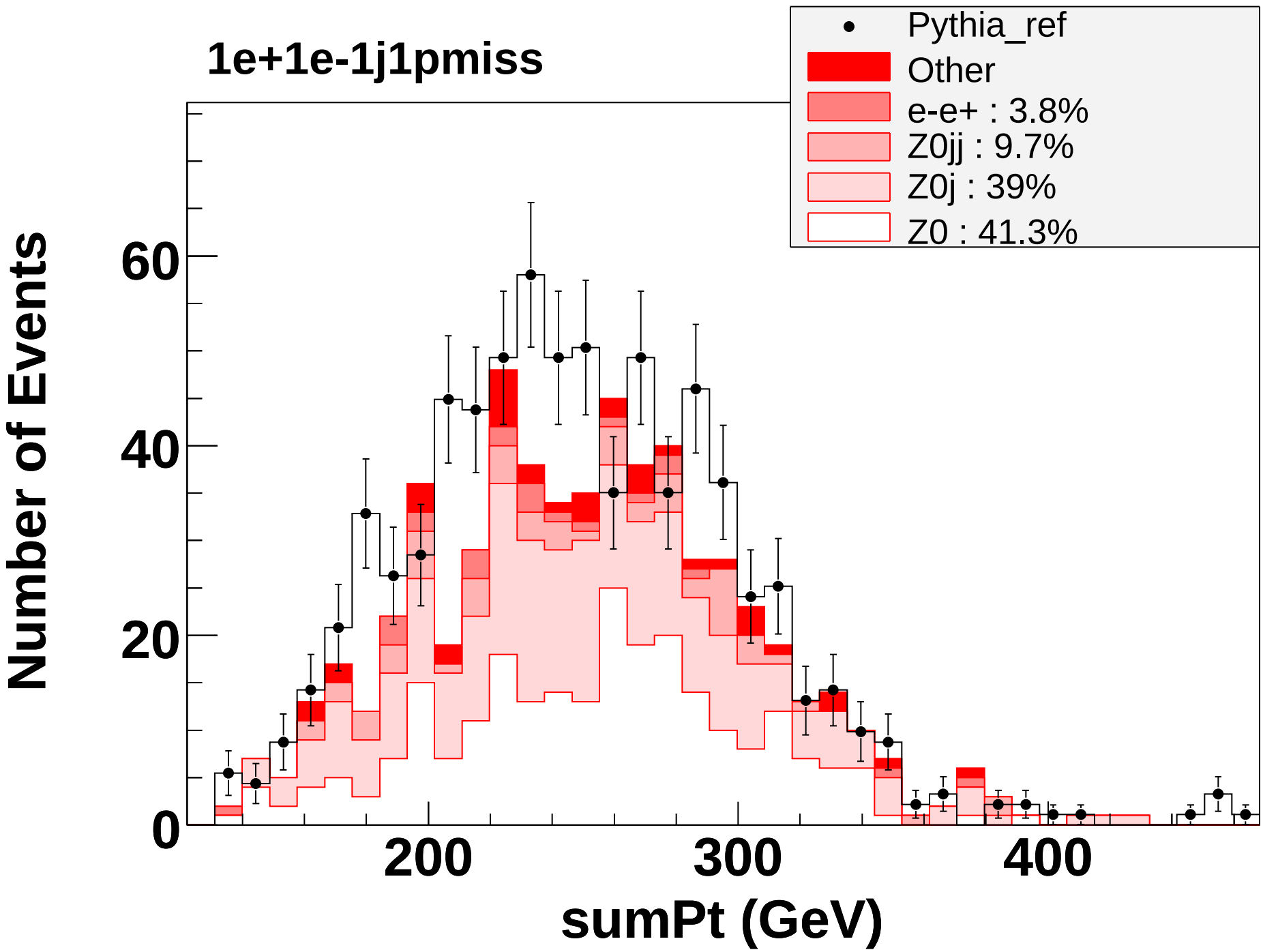

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
150
100
50
0
0
200
400
600
M(e+,j) (GeV)

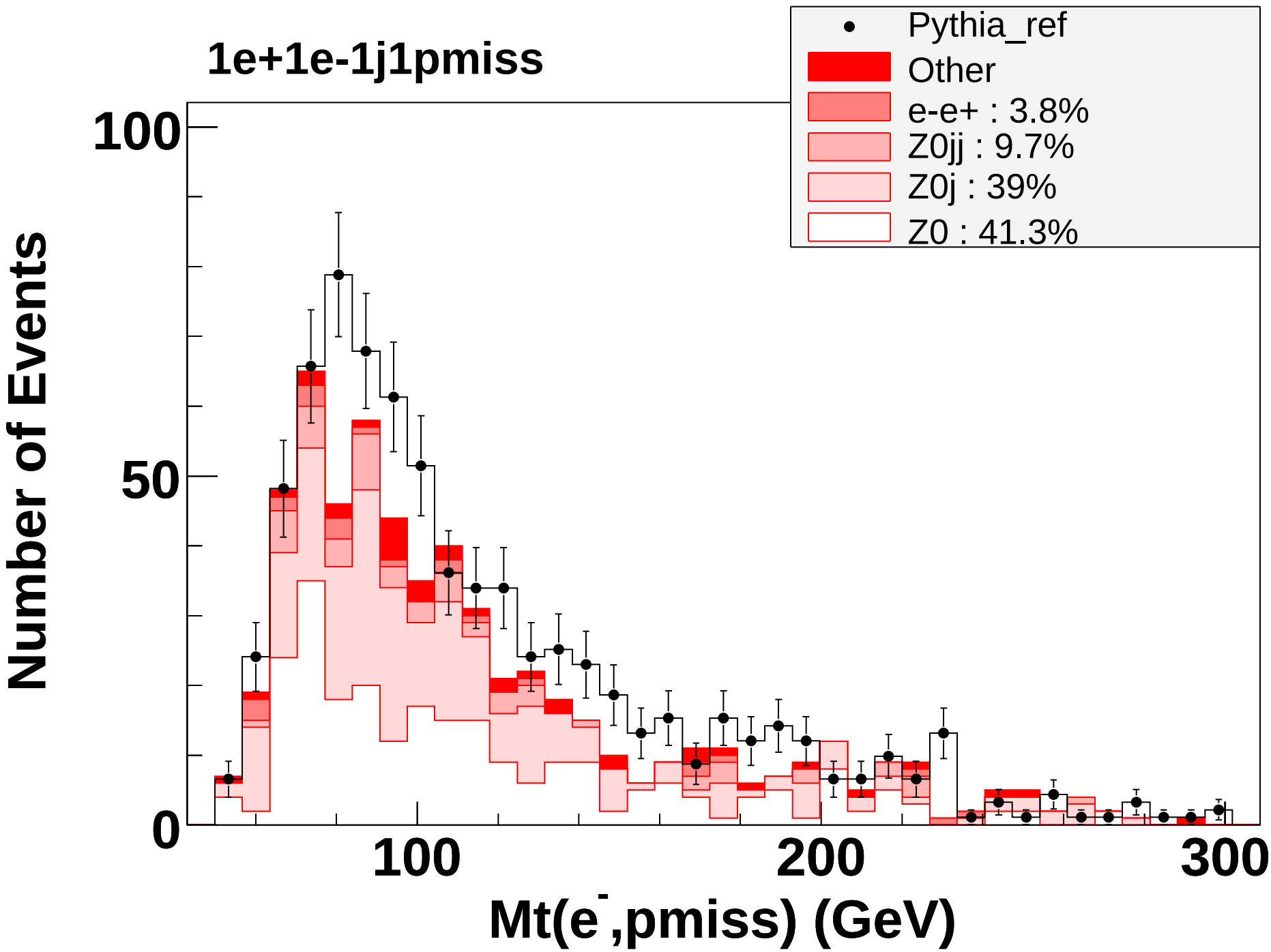

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
0
1
2
3
angle(jet-beamPlane,leptonPlane) (radians)

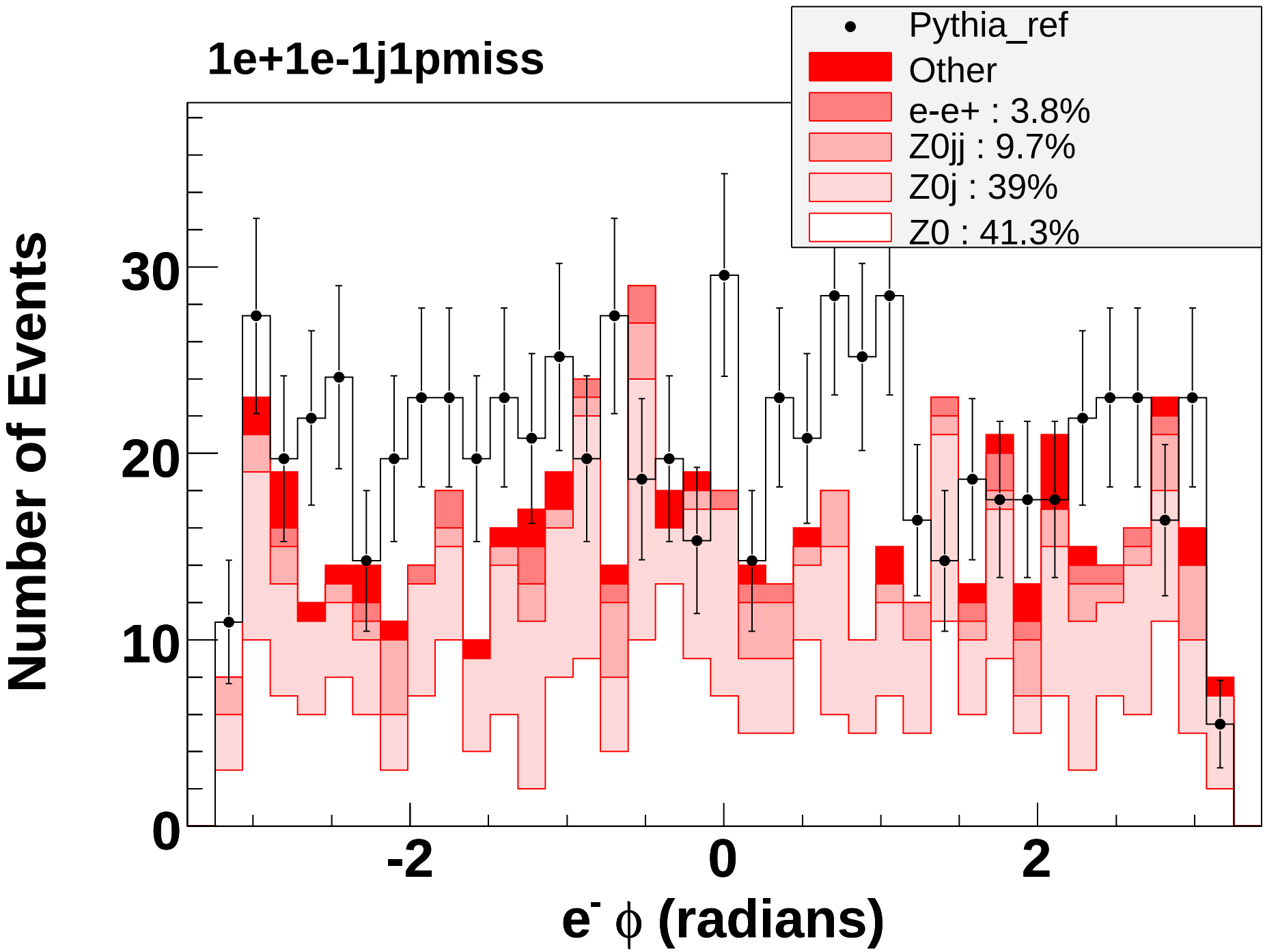

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
-2
0
2
4
j eta

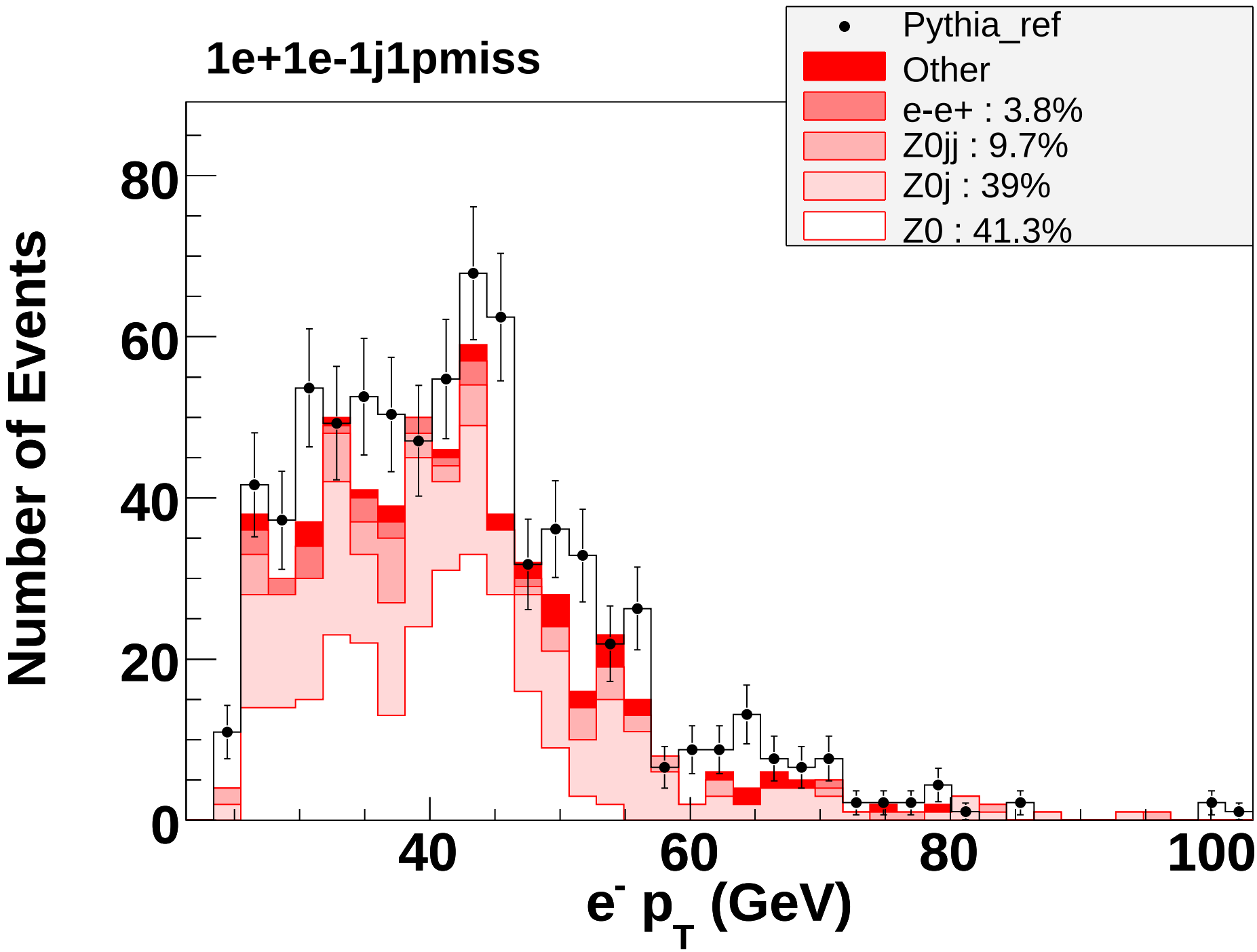

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
-2
0
2
4
j detEta

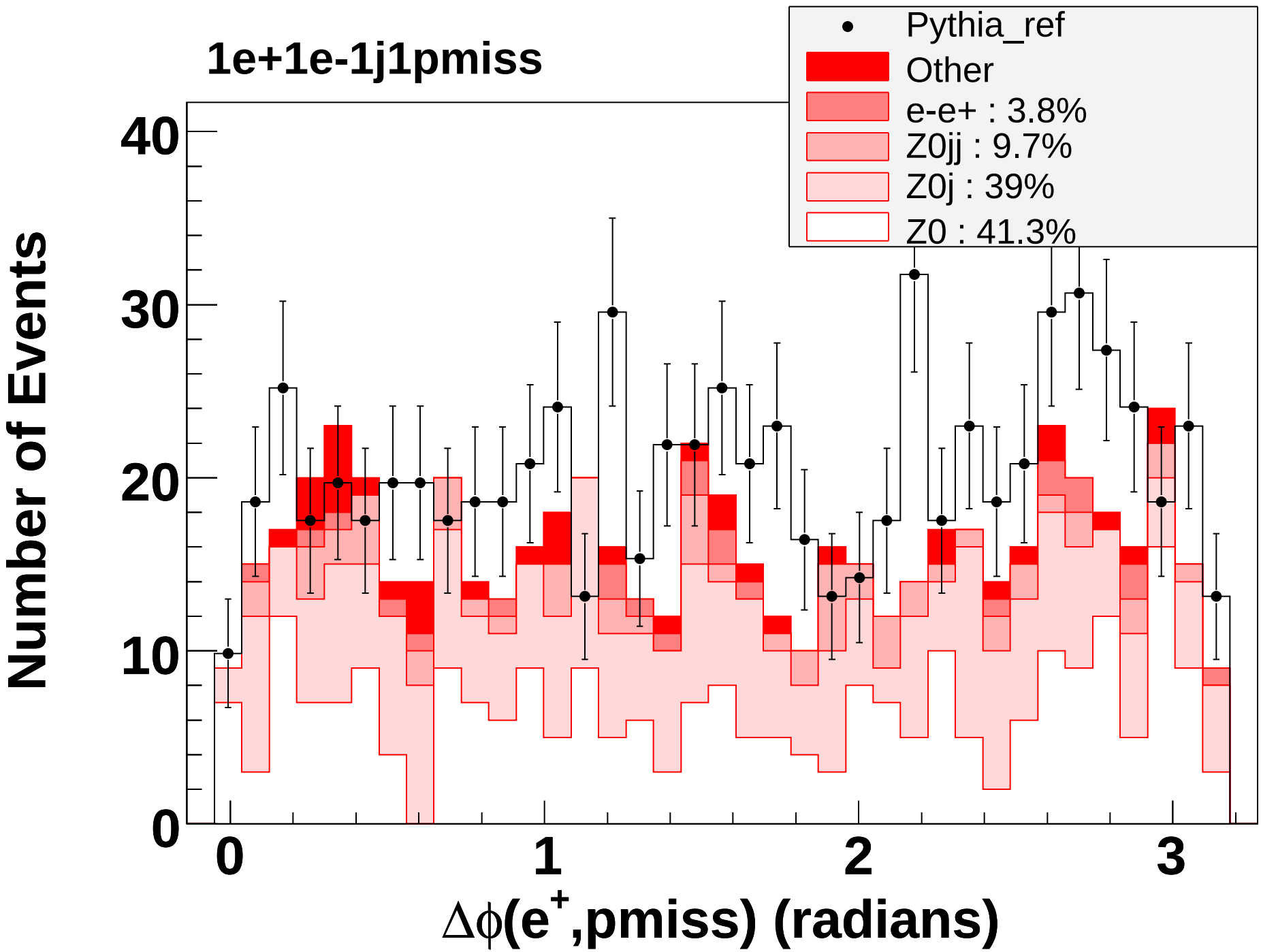

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
-2
0
2
j ϕ (radians)

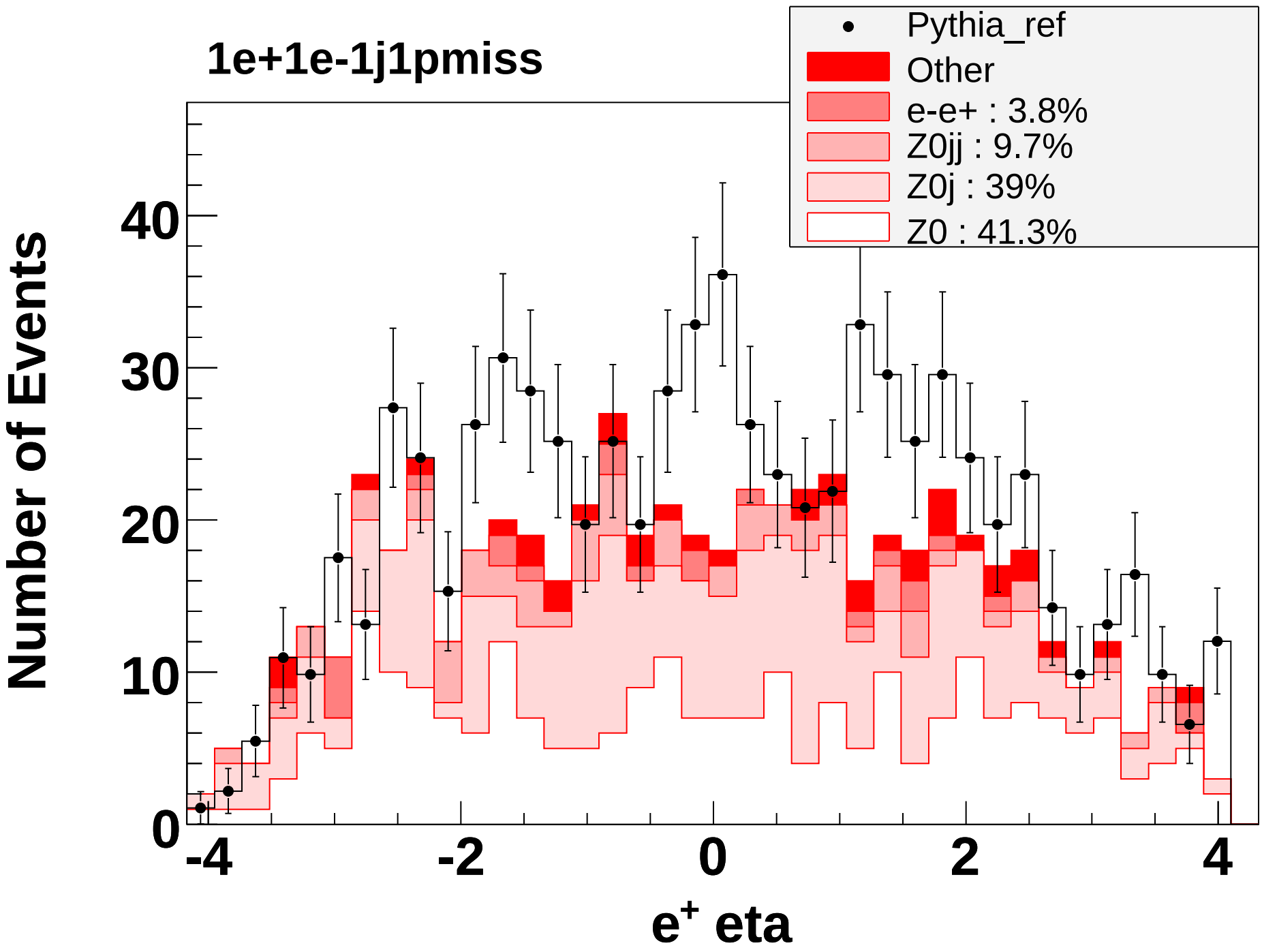

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
200
300
400
sumPt (GeV)

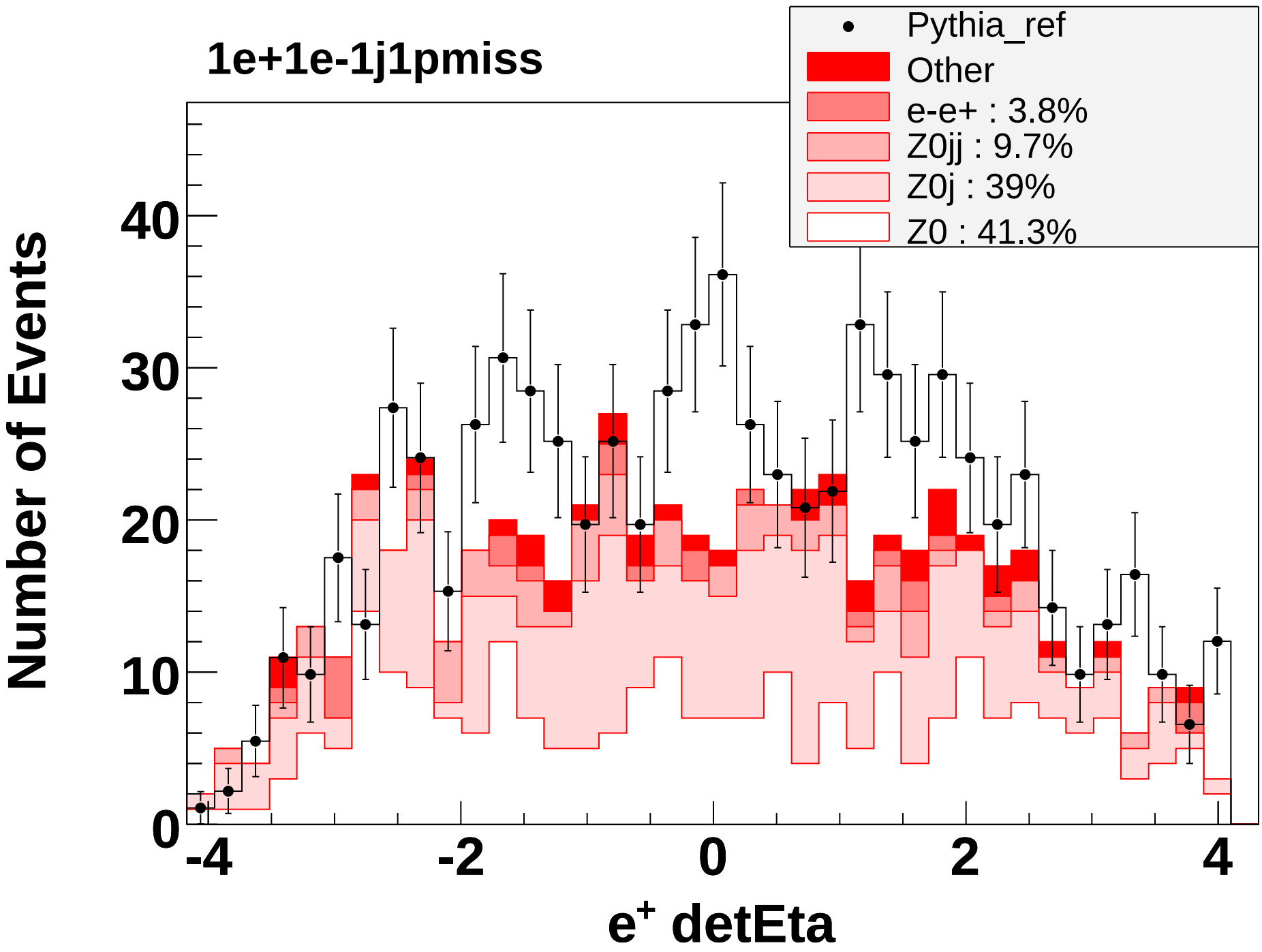

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
100
50
0
100
200
300
Mt(e-,pmiss) (GeV)

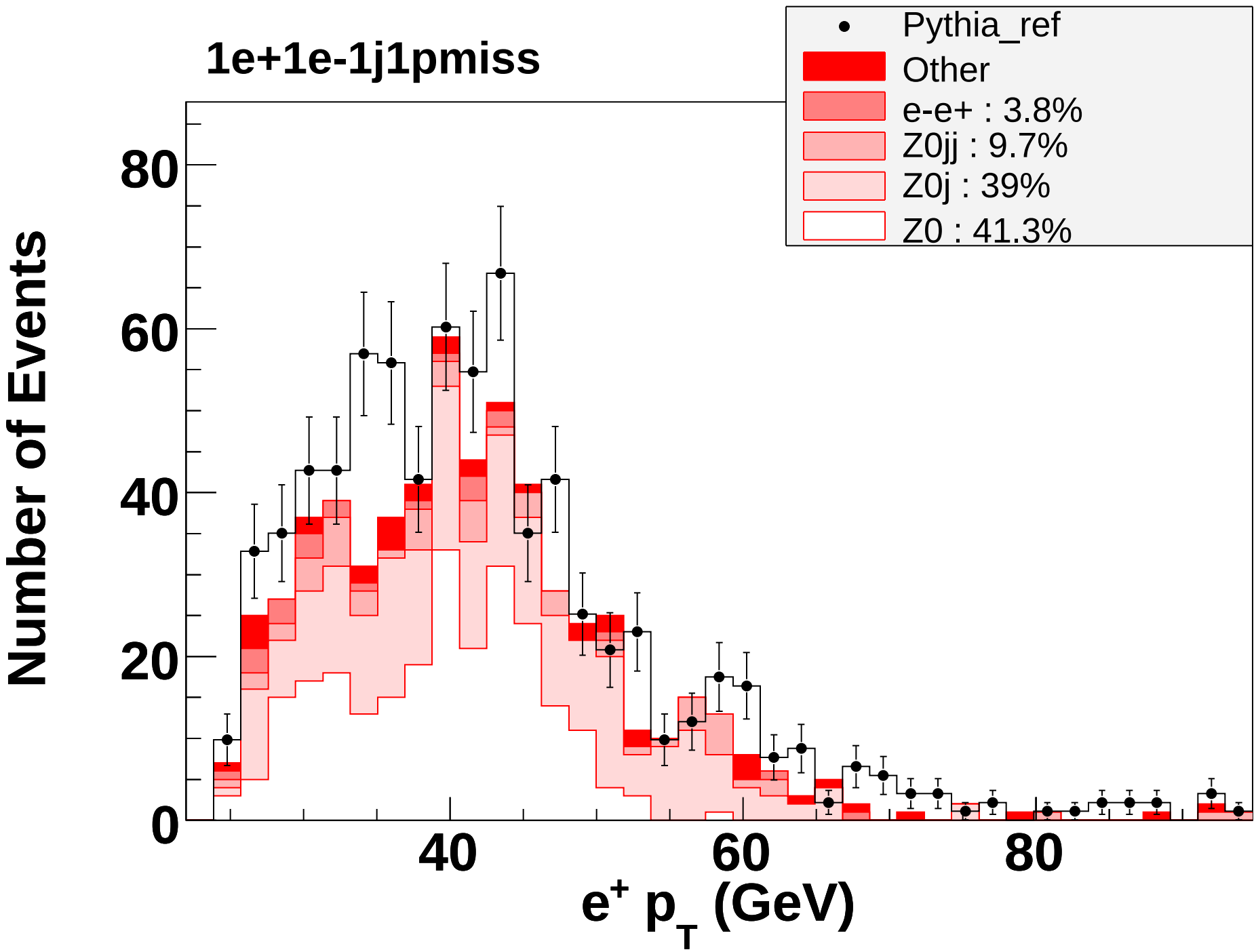

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
-2
0
2
e- ϕ (radians)

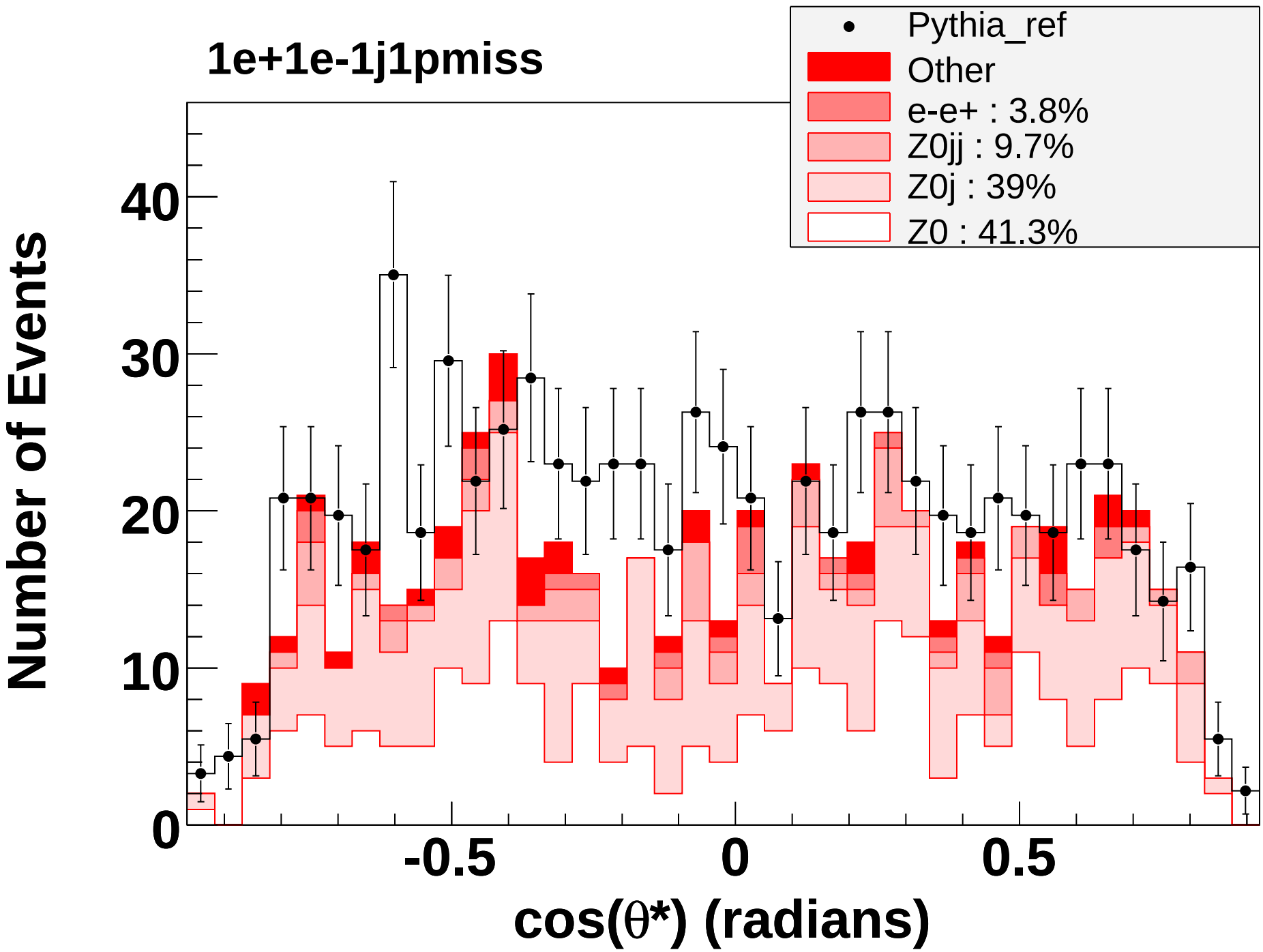

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
80
40
60
80
100
e- pT (GeV)

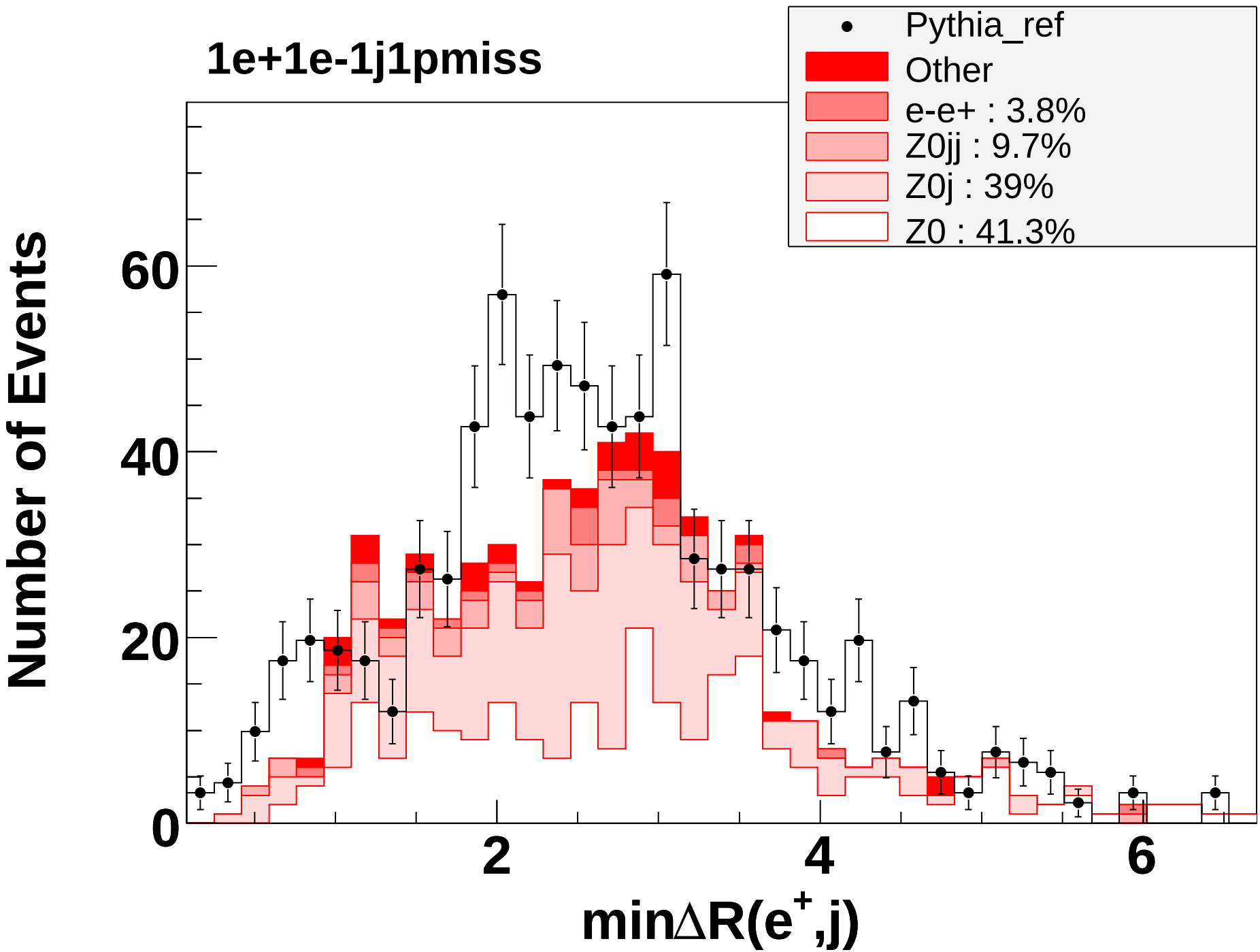

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
0
1
2
3
Δϕ(e+,pmiss) (radians)

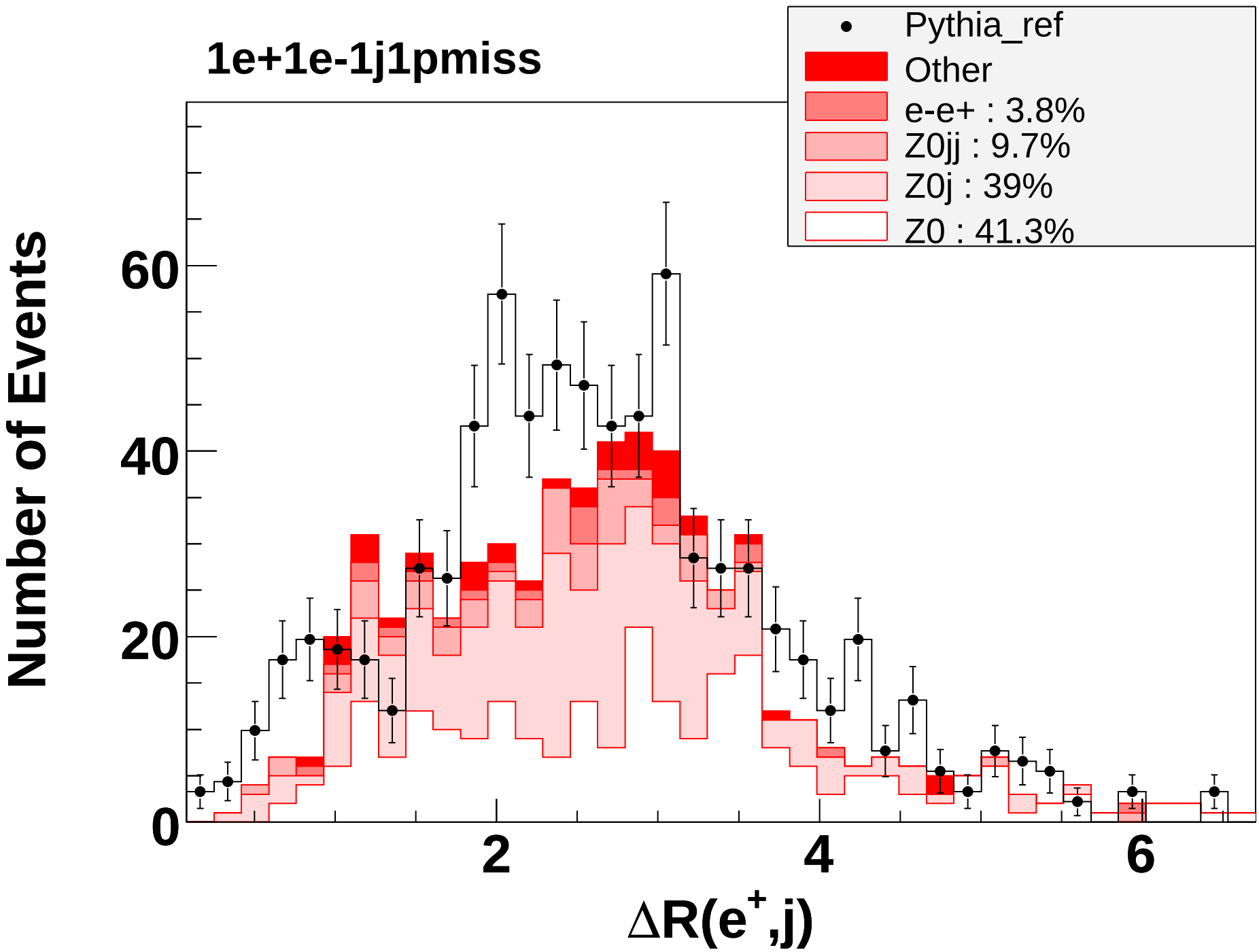

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
-4
-2
0
2
4
e+ eta

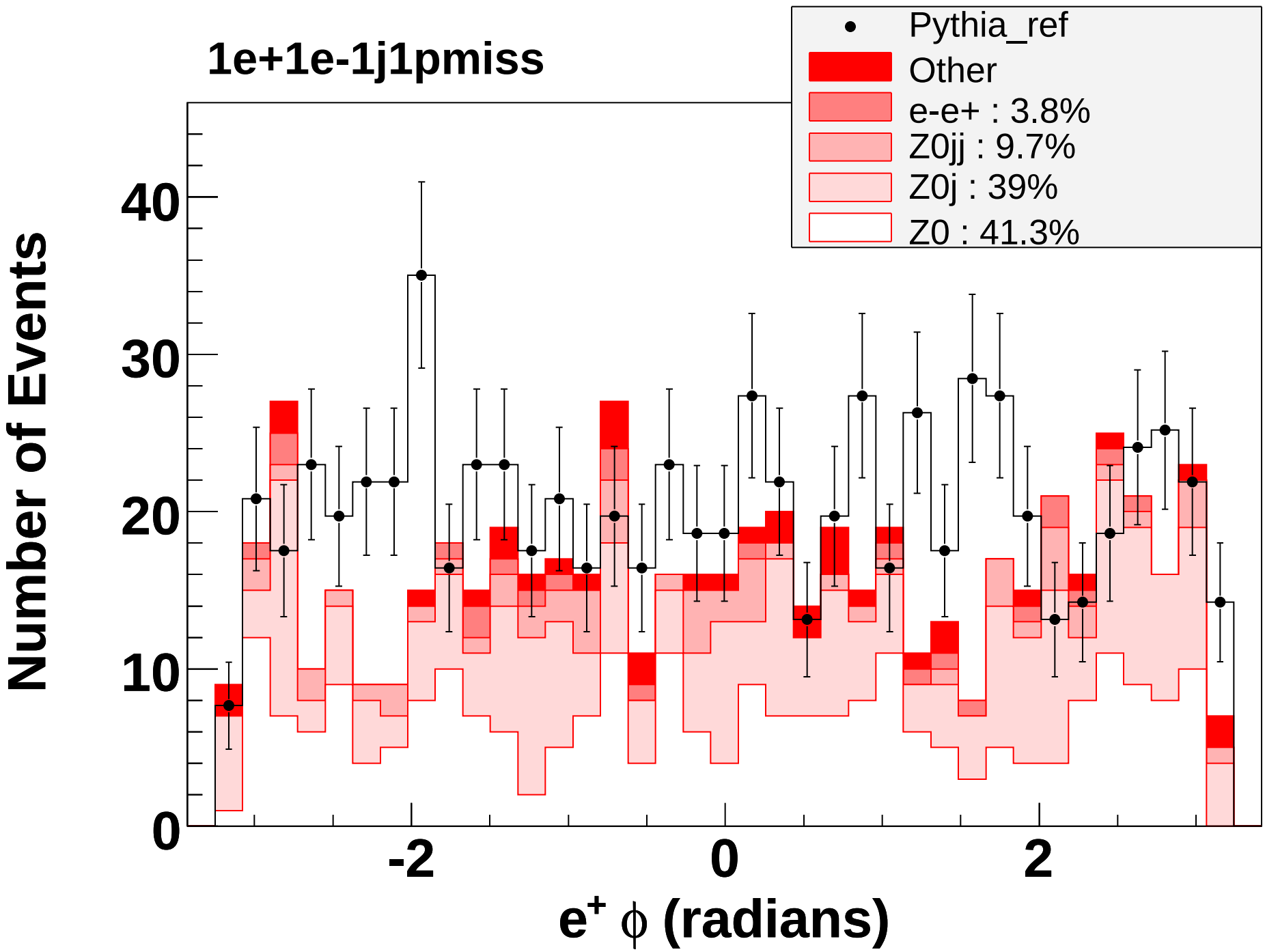

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
-4
-2
0
2
4
e+ detEta

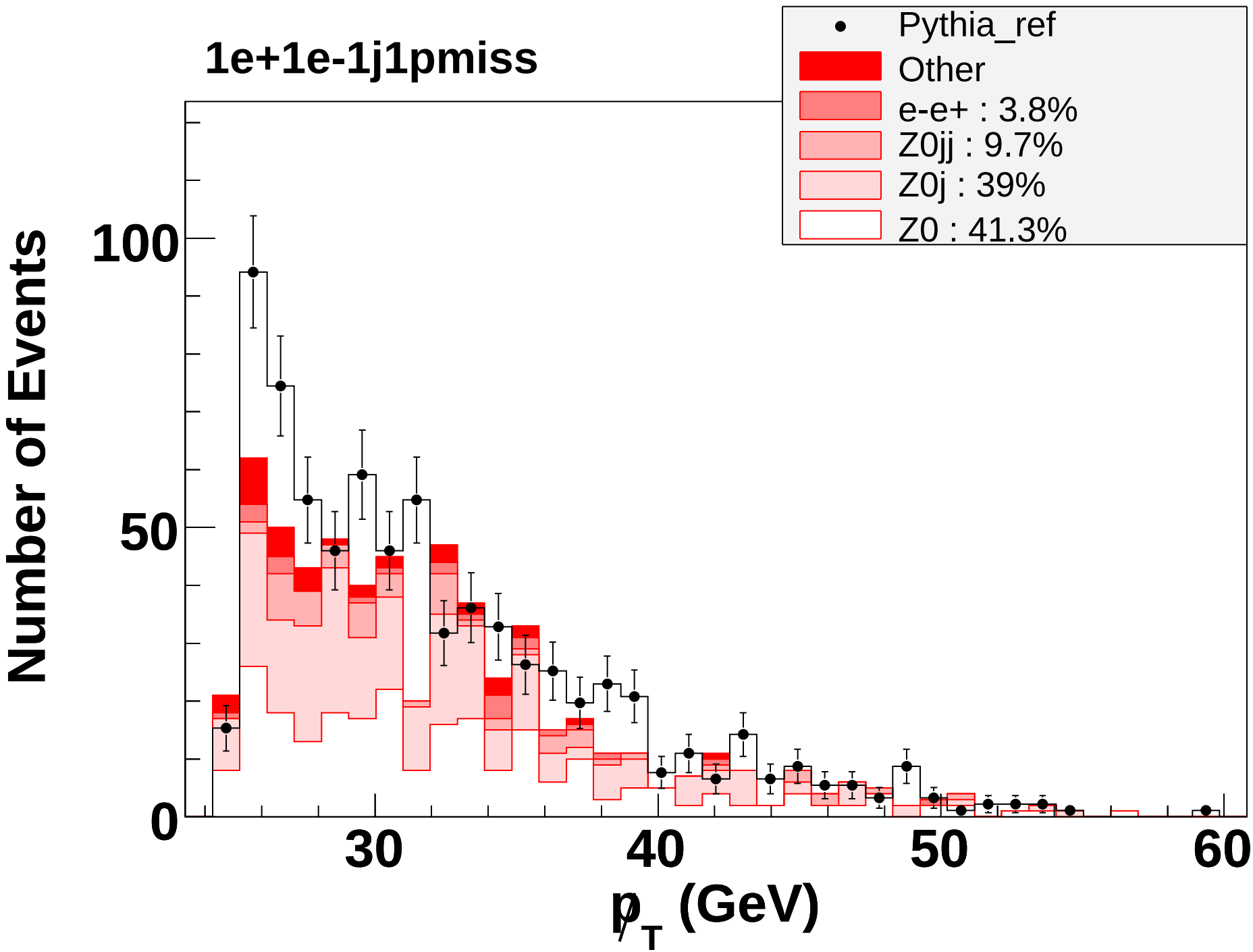

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
80
40
60
80
e+ pT (GeV)

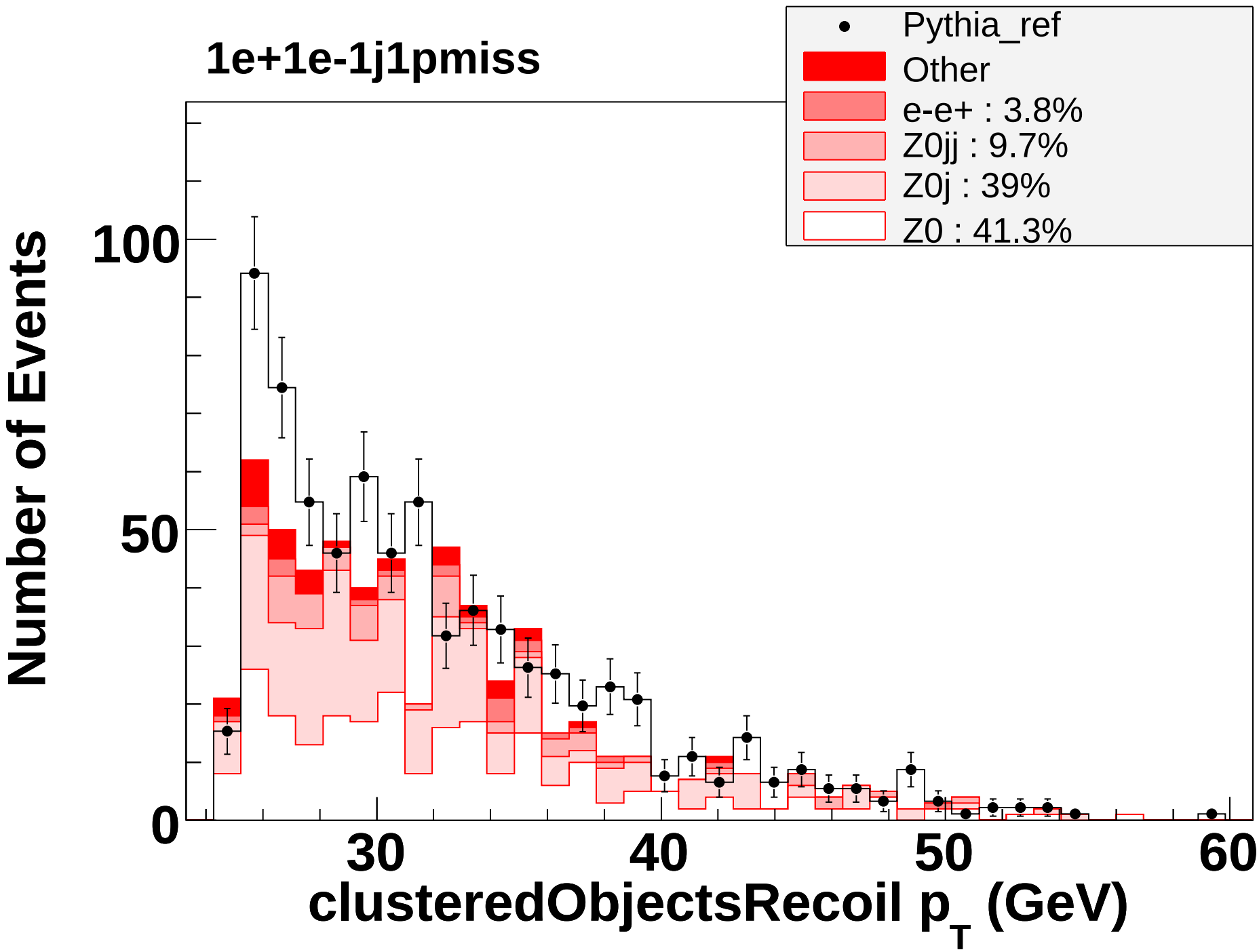

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
-0.5
0
0.5
cos(θ*) (radians)

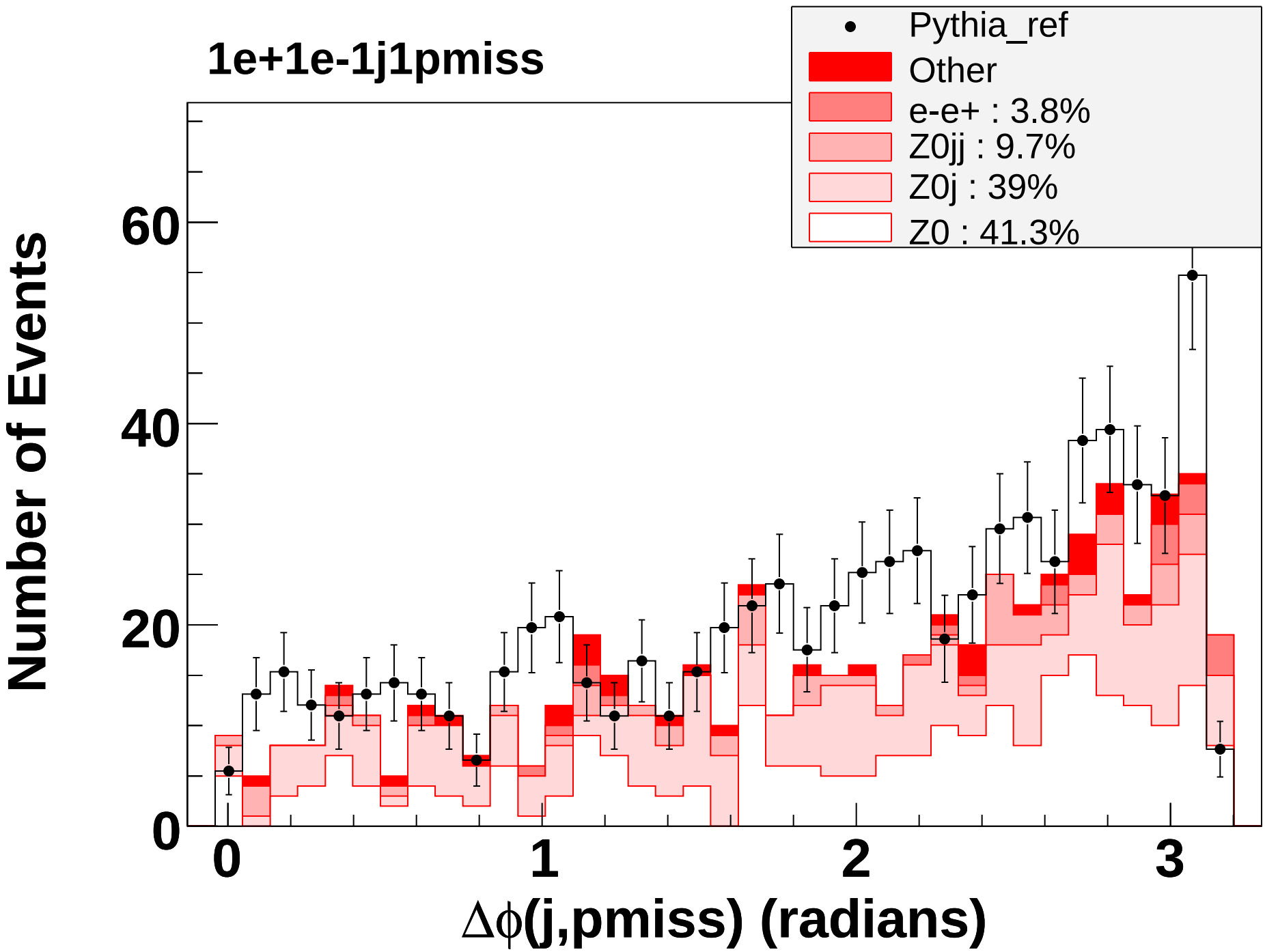

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
2
4
6
minΔR(e+,j)

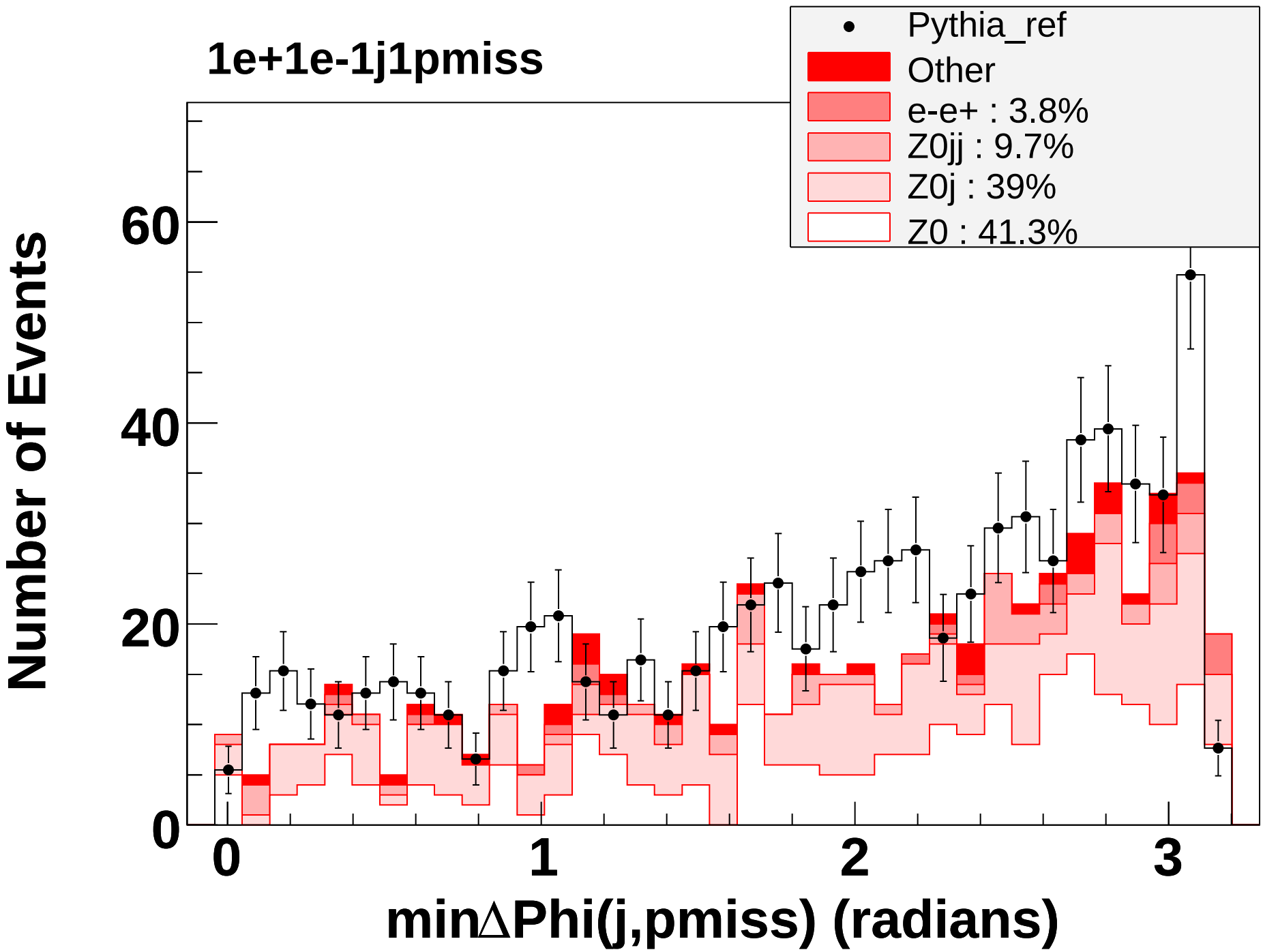

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
2
4
6
ΔR(e+,j)

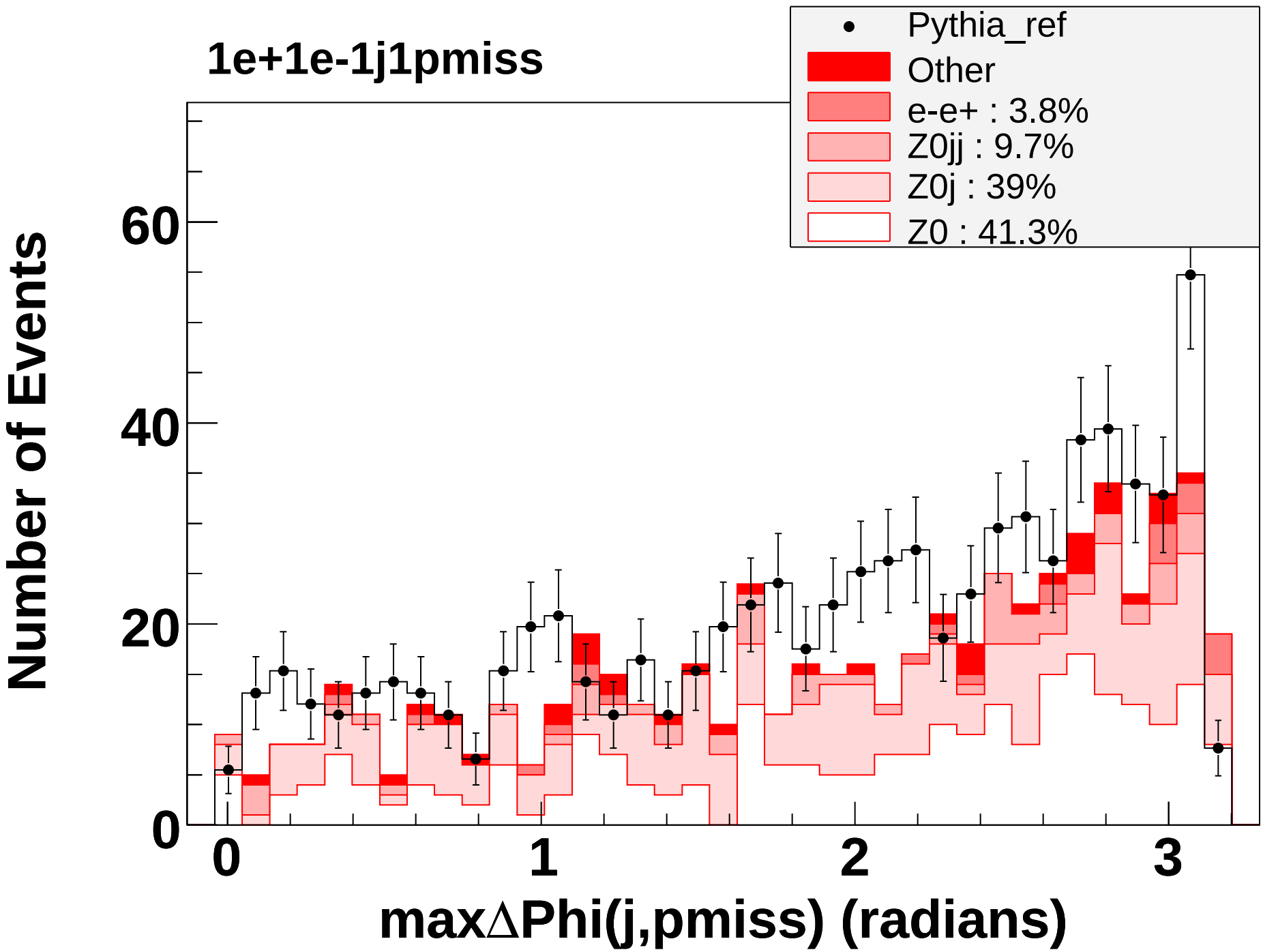

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
-2
0
2
e+ ϕ (radians)

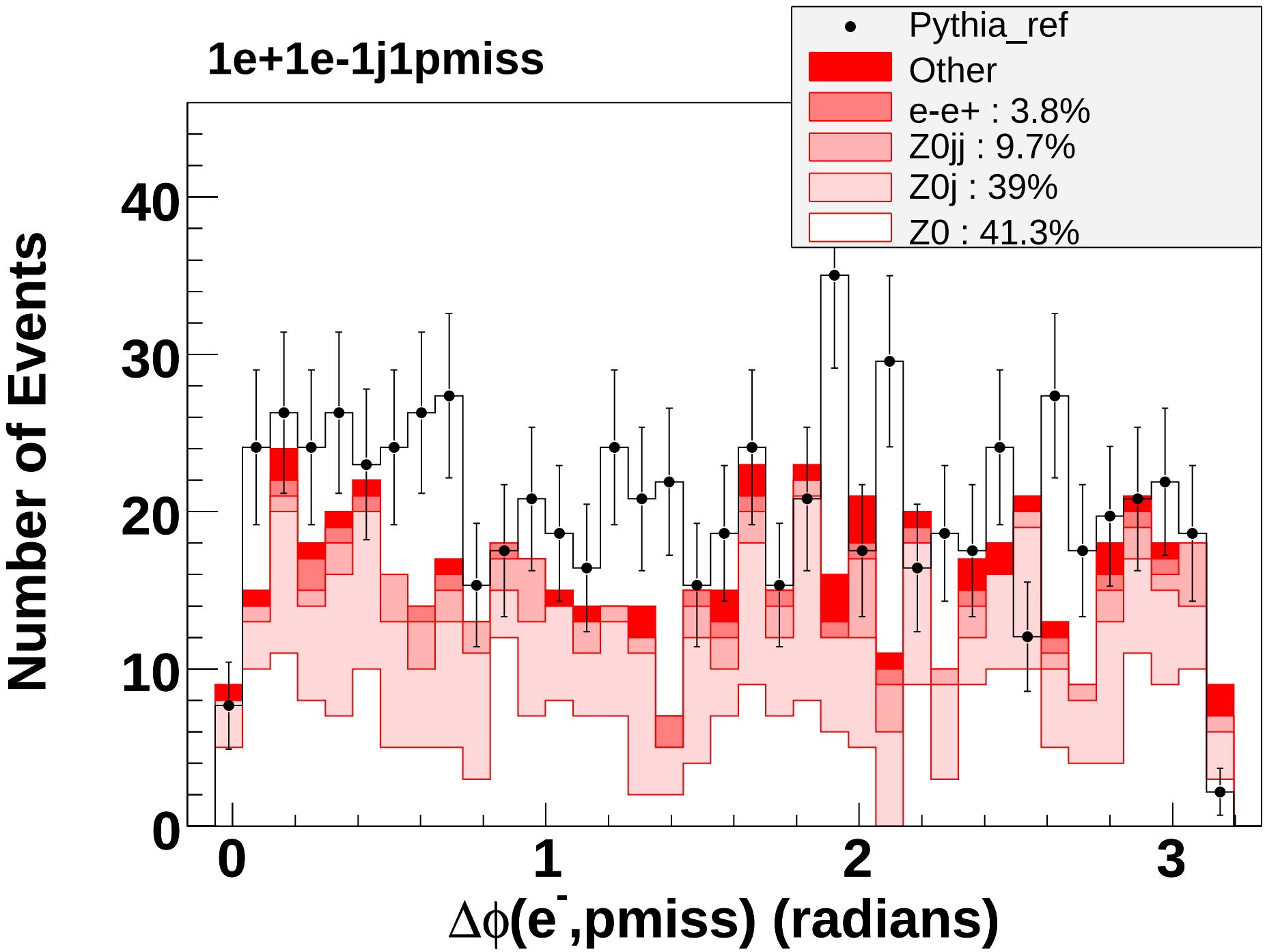

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
100
50
0
30
40
50
60
p/T (GeV)

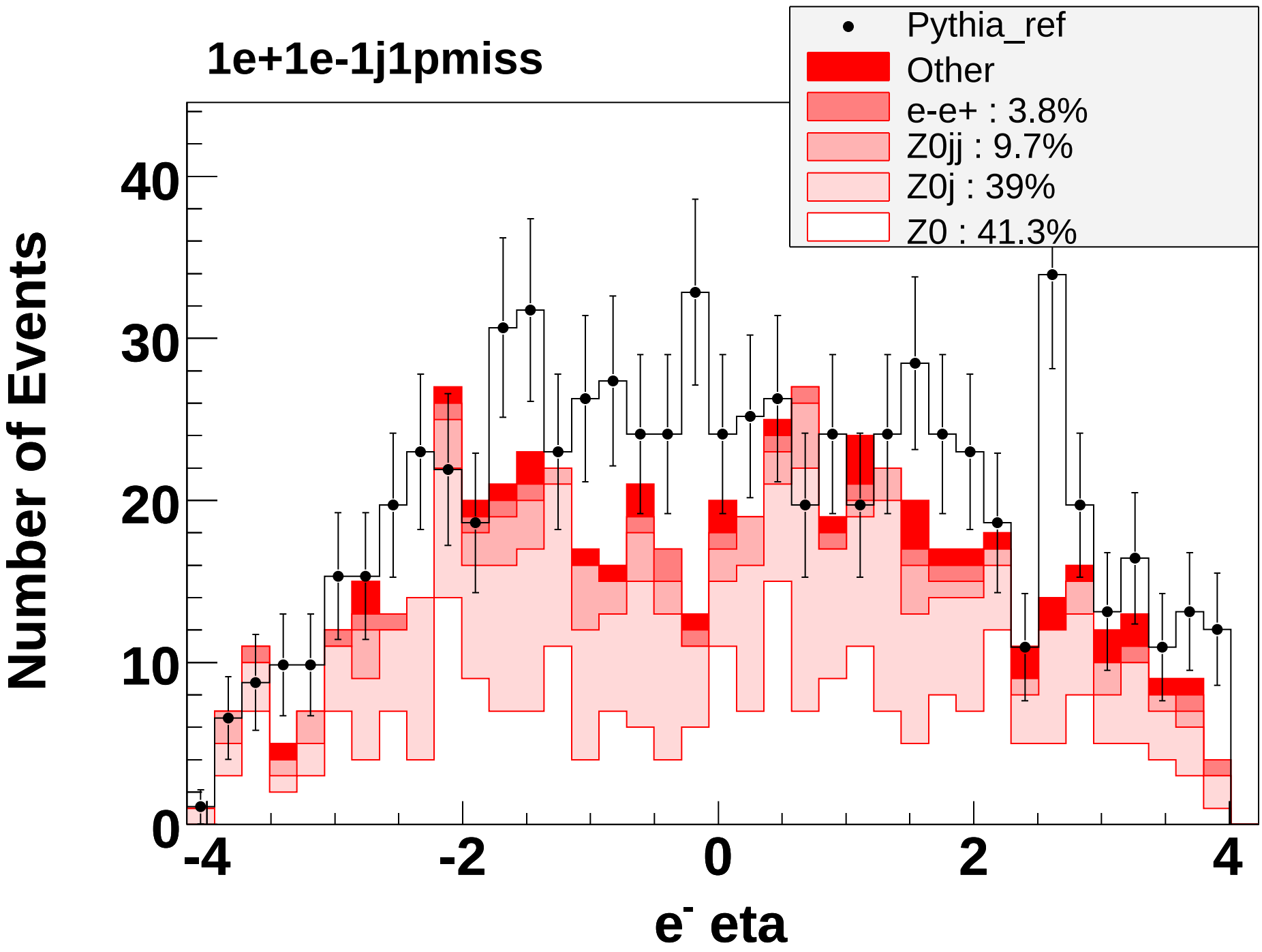

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
50
100
30
40
50
60
clusteredObjectsRecoil p_T (GeV)

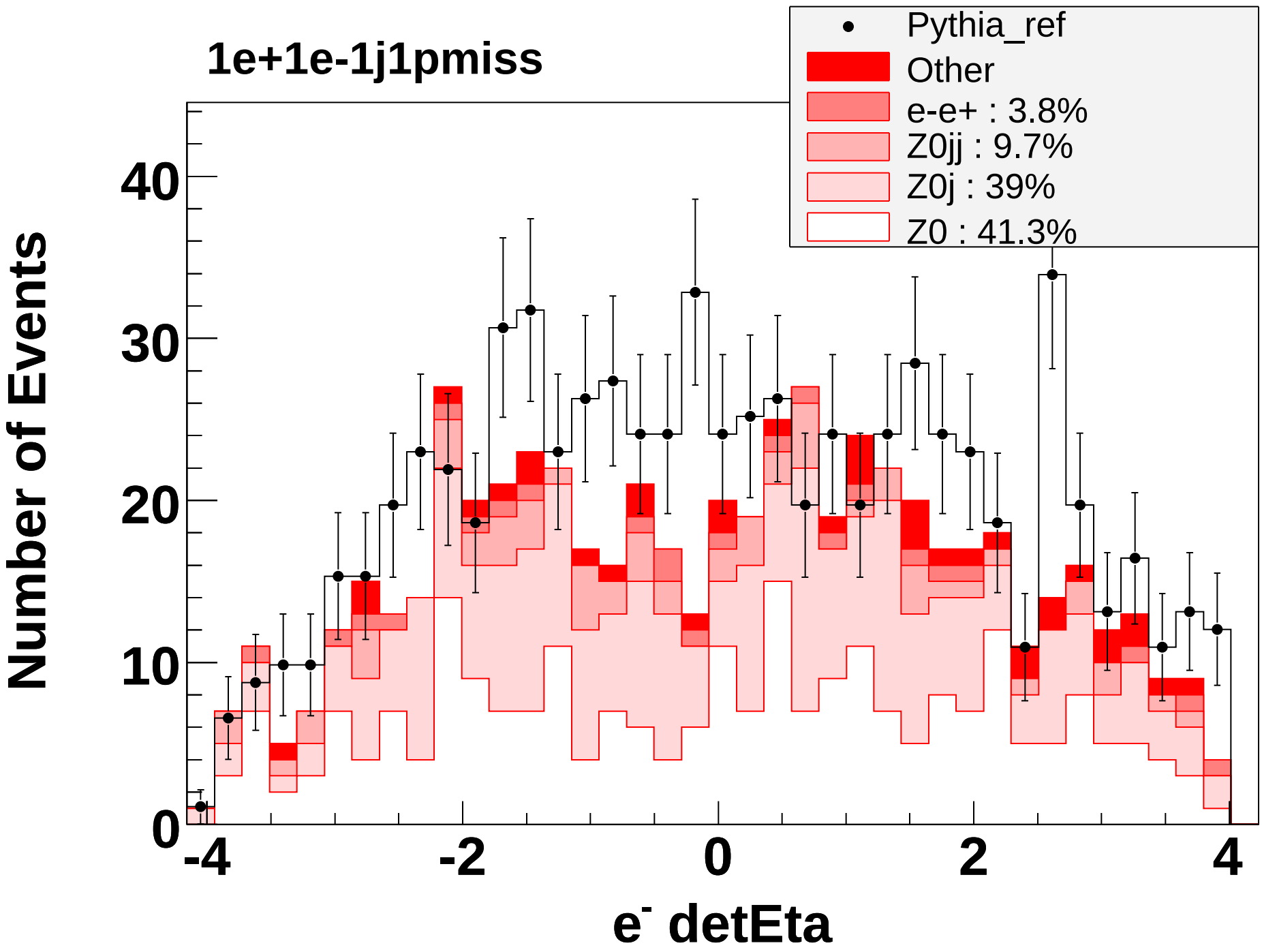

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
0
1
2
3
Δϕ(j,pmiss) (radians)

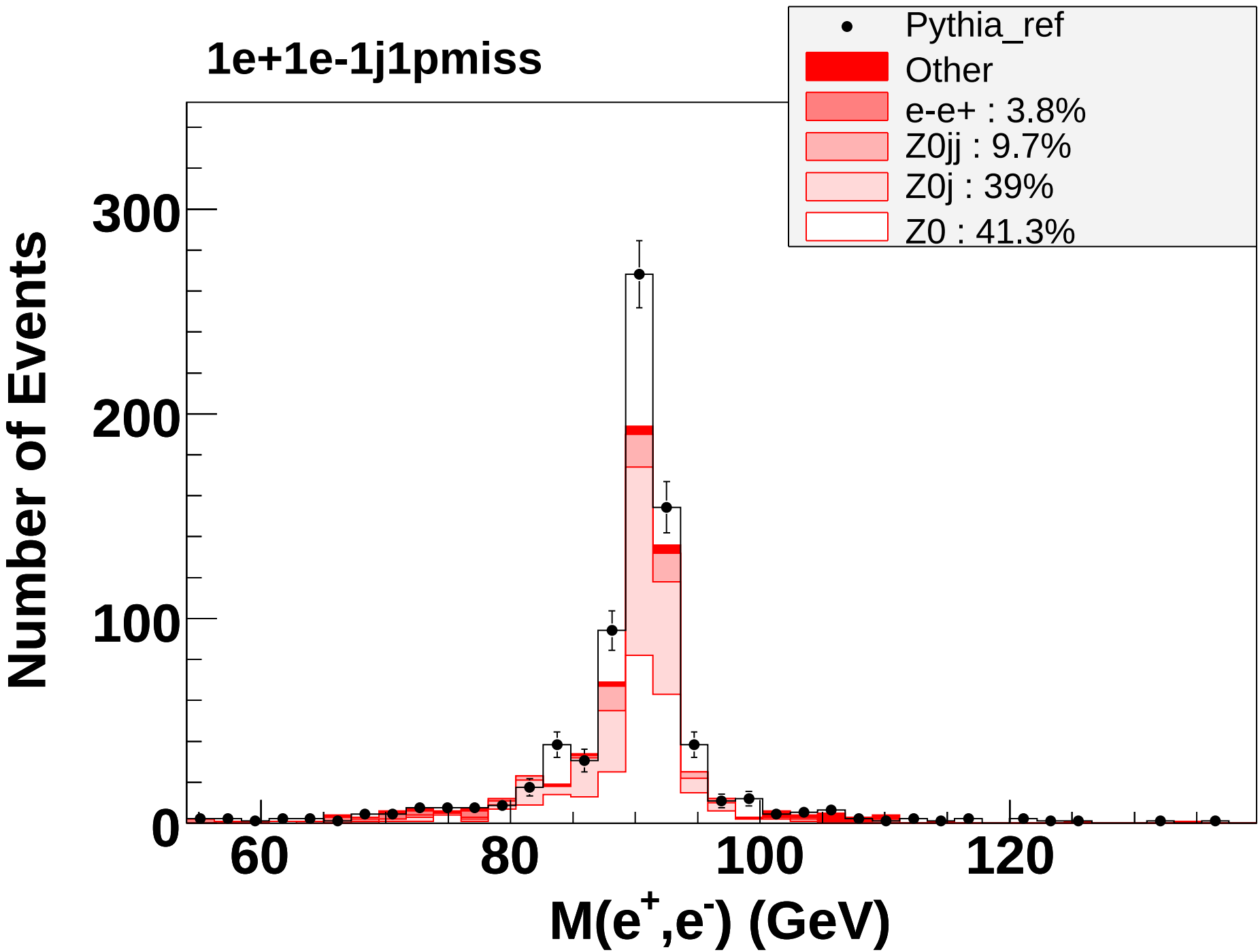

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
0
1
2
3
minΔPhi(j,pmiss) (radians)

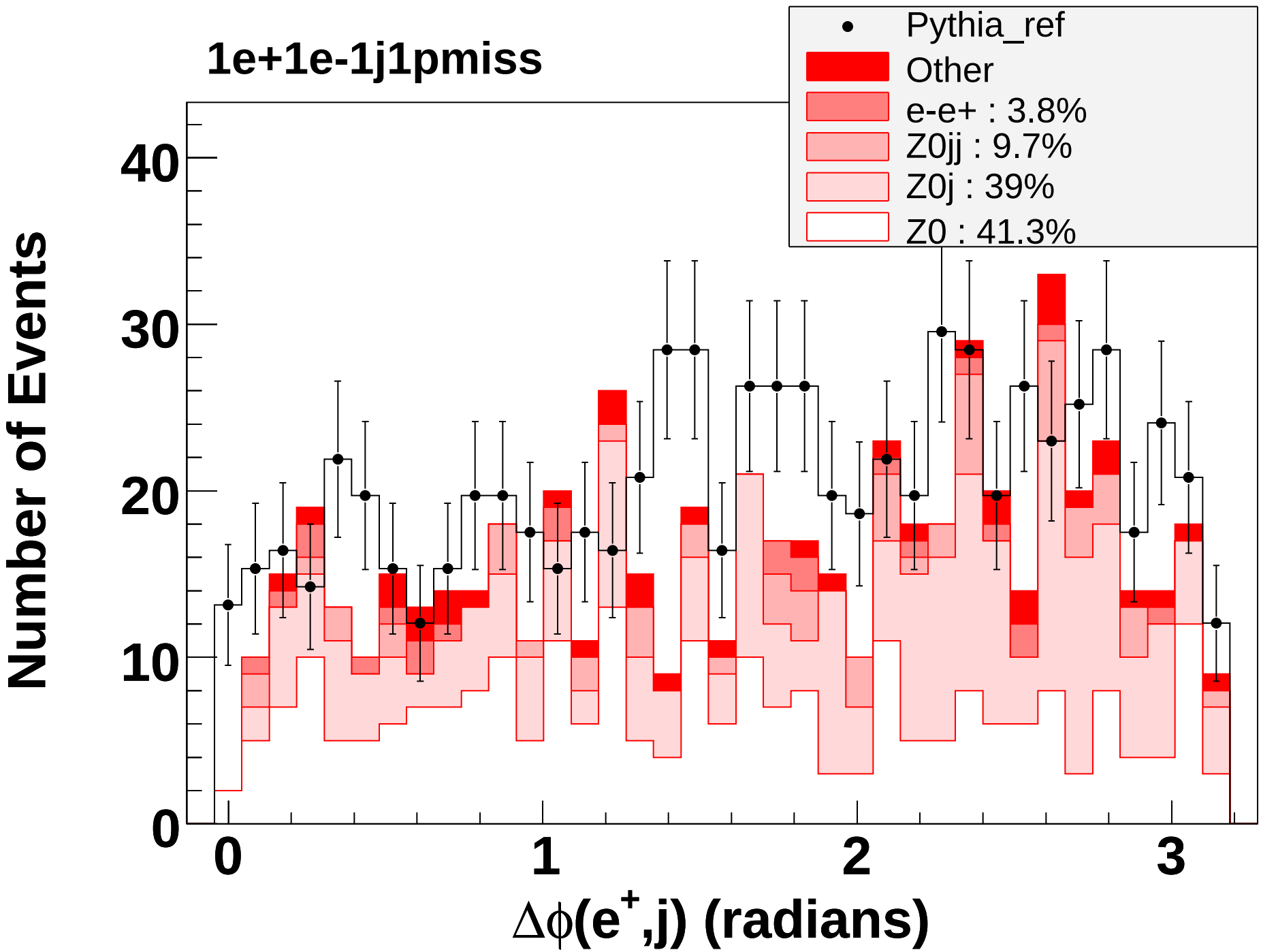

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
0
1
2
3
maxΔPhi(j,pmiss) (radians)

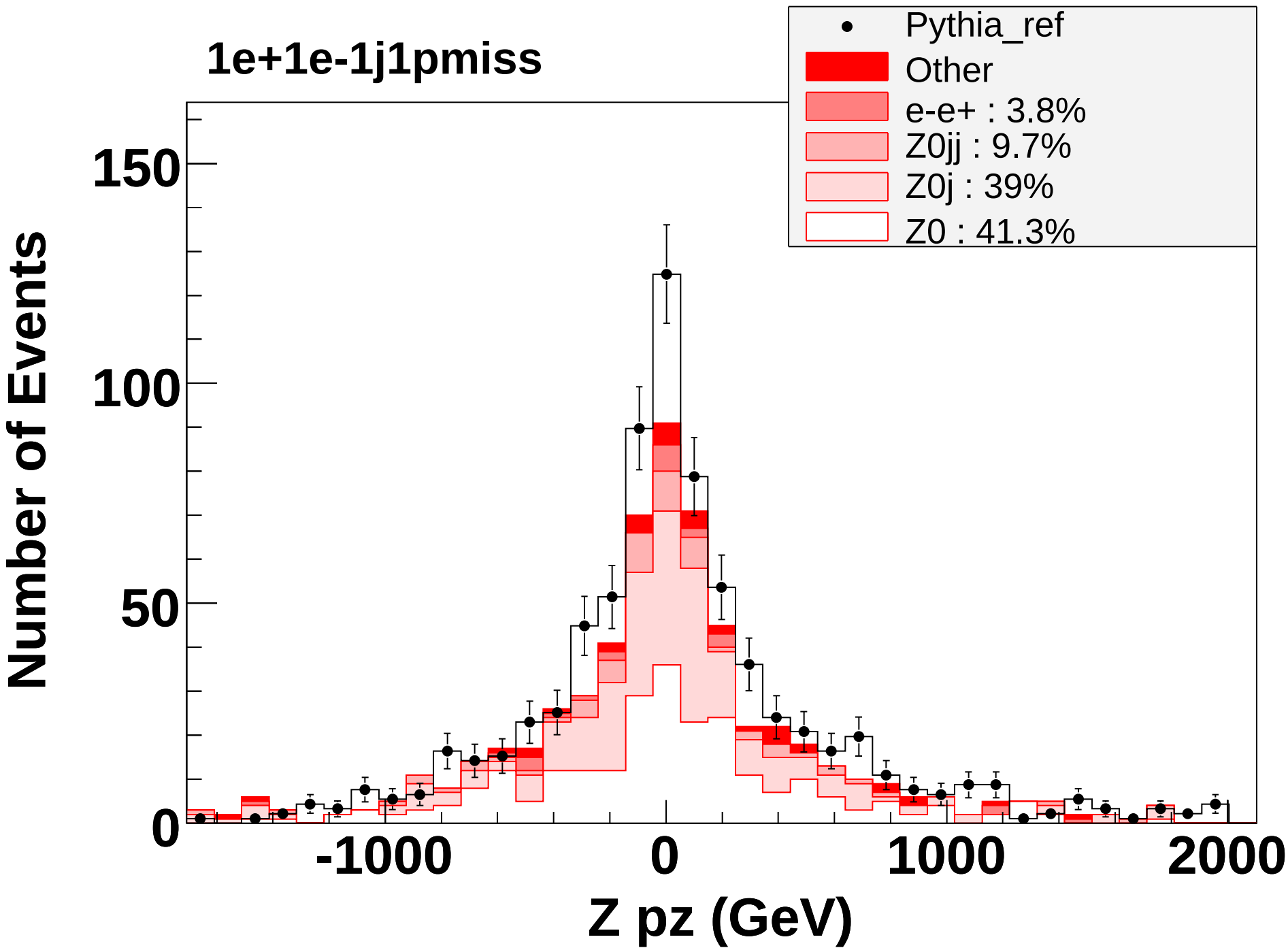

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
0
1
2
3
Δϕ(e⁻,pmiss) (radians)

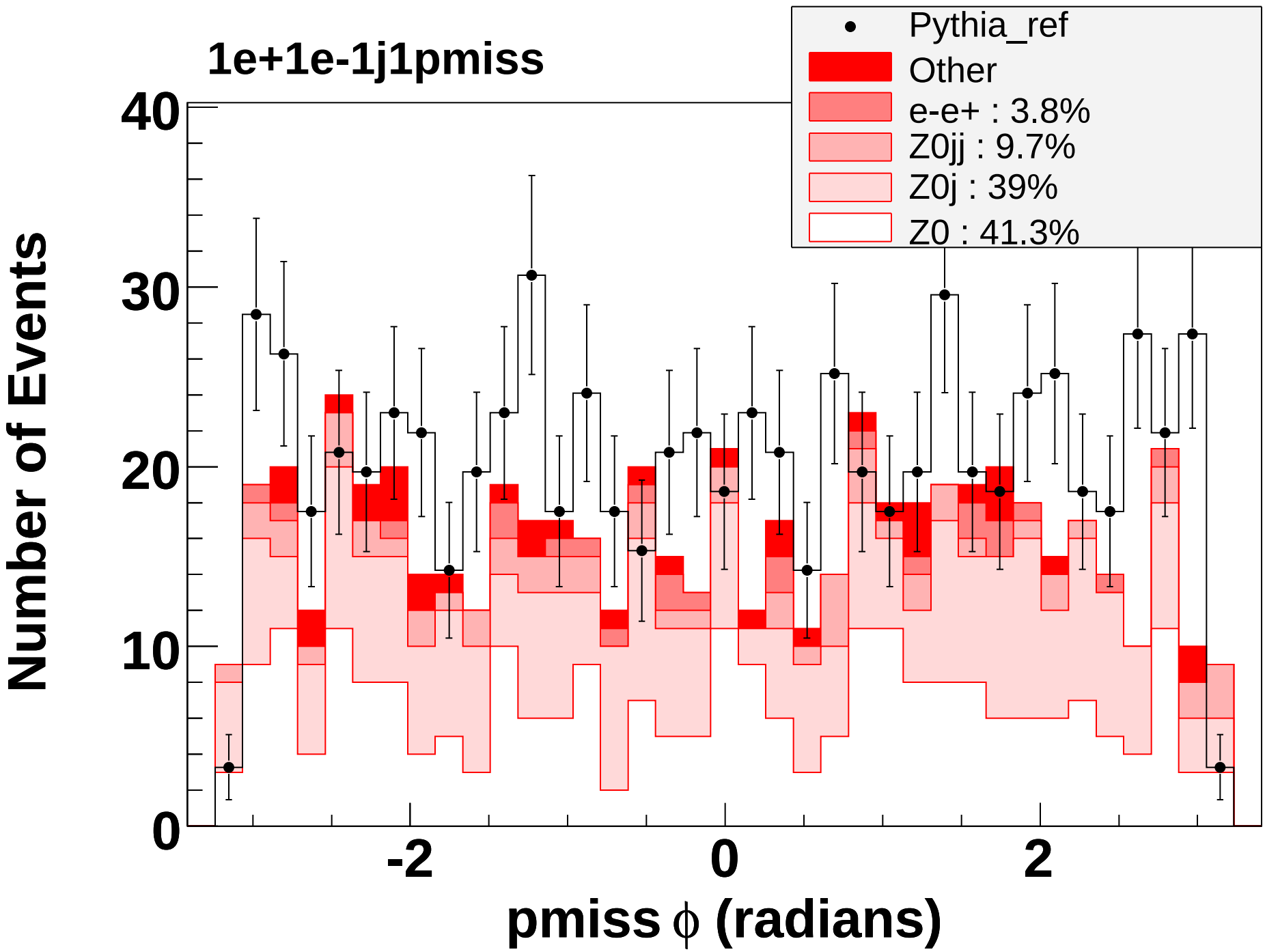

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
-4
-2
0
2
4
e- eta

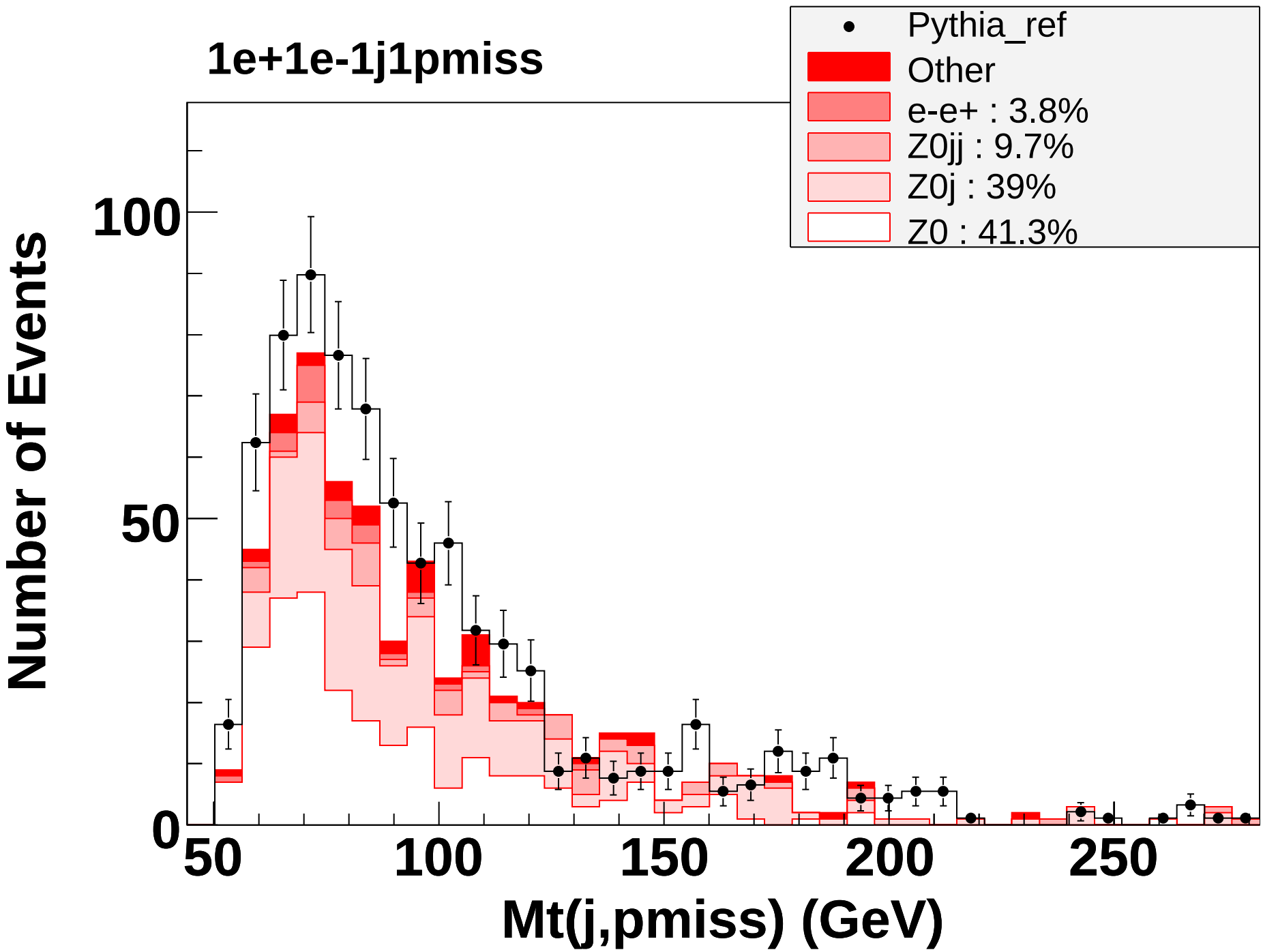

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
-4
-2
0
2
4
e- detEta

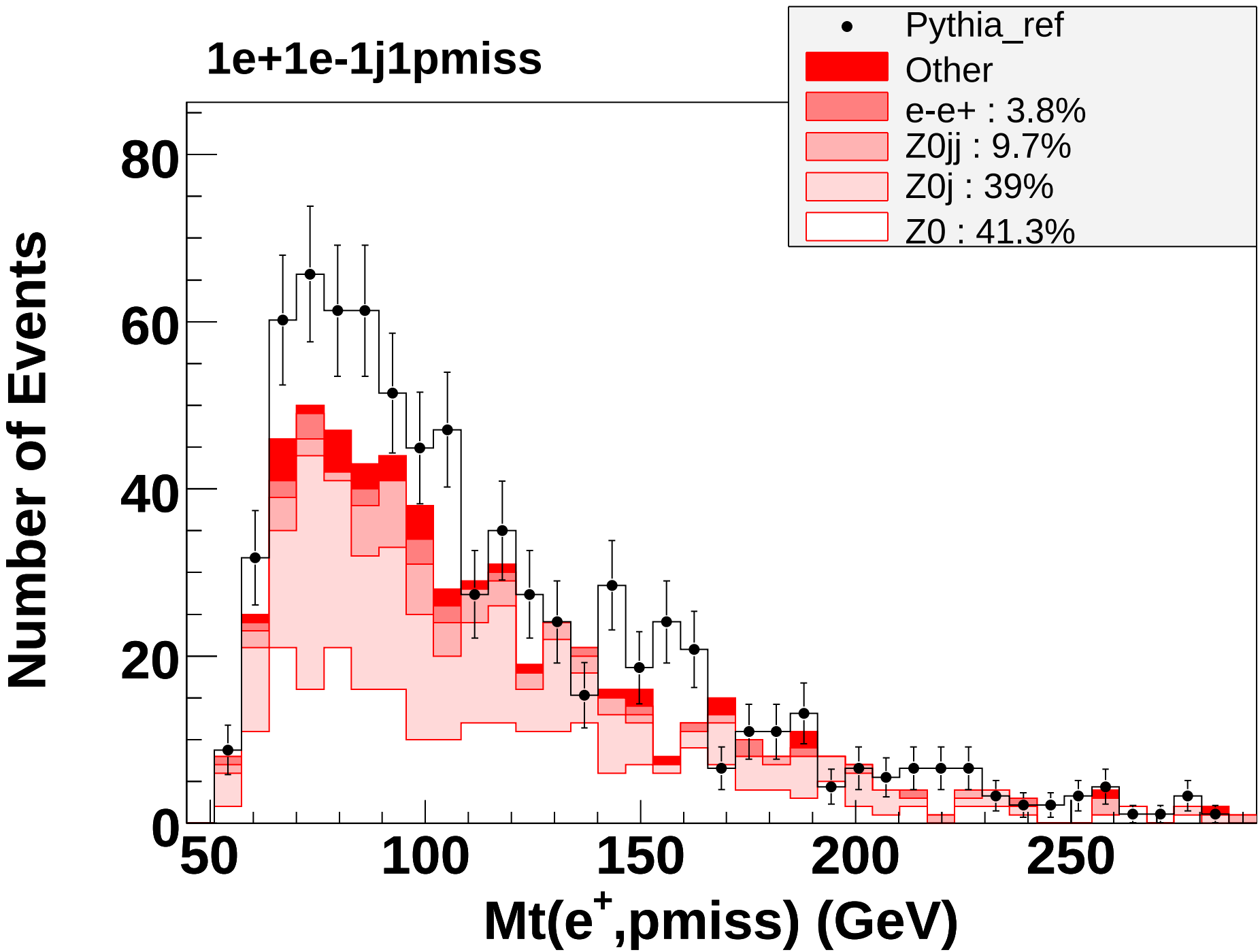

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
100
200
300
60
80
100
120
M(e+,e-) (GeV)

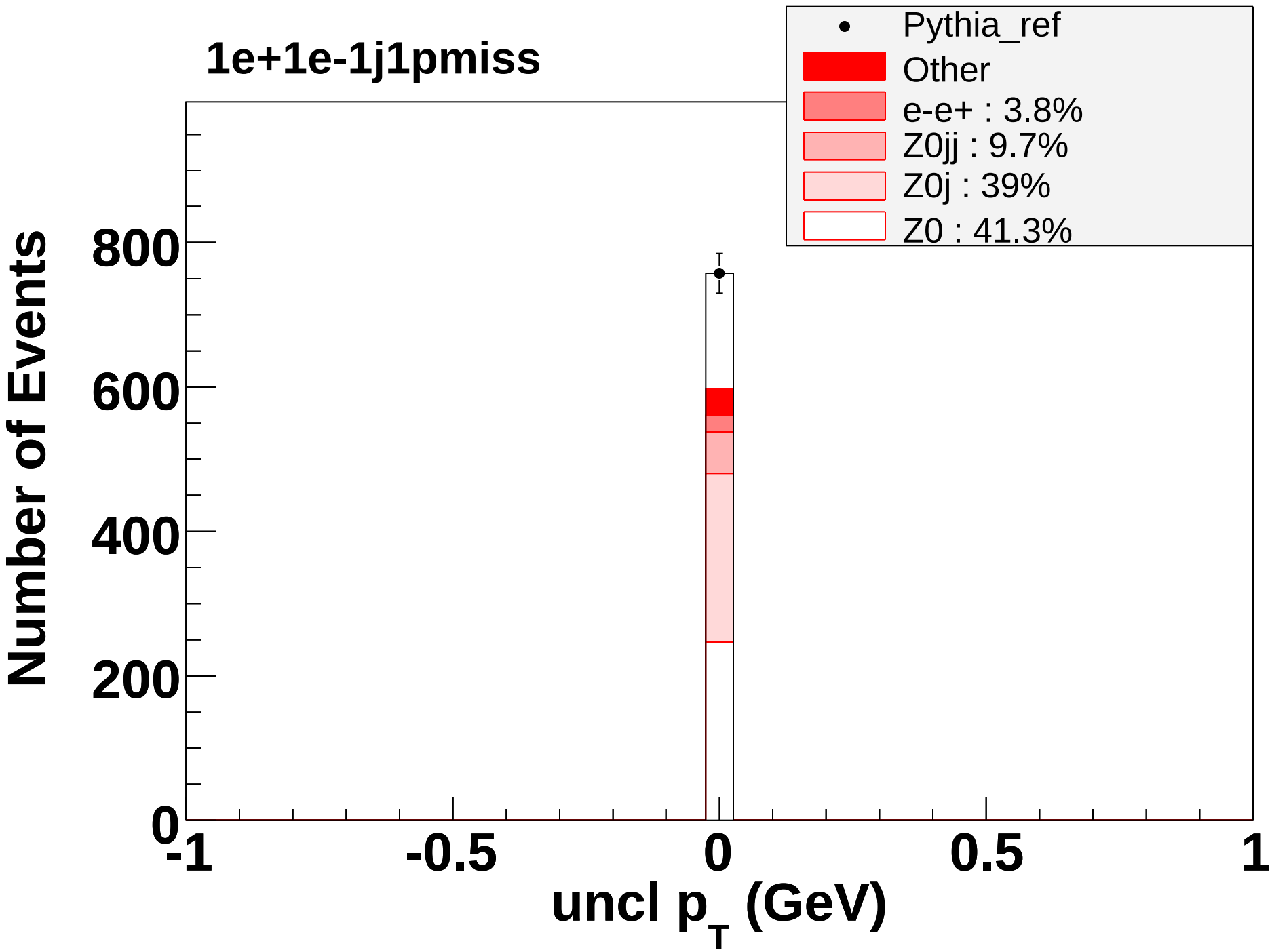

1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
10
20
30
40
0
1
2
3
Δϕ(e+,j) (radians)


1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
150
100
50
0
-1000
0
1000
2000
Z pz (GeV)


1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
40
30
20
10
0
-2
0
2
pmiss ϕ (radians)


1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
50
100
50
100
150
200
250
Mt(j,pmiss) (GeV)


1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
0
20
40
60
80
50
100
150
200
250
Mt(e+,pmiss) (GeV)


1e+1e-1j1pmiss
Pythia_ref
Other
e-e+ : 3.8%
Z0jj : 9.7%
Z0j : 39%
Z0 : 41.3%
Number of Events
800
600
400
200
0
-1
-0.5
0
0.5
1
uncl p_T (GeV)