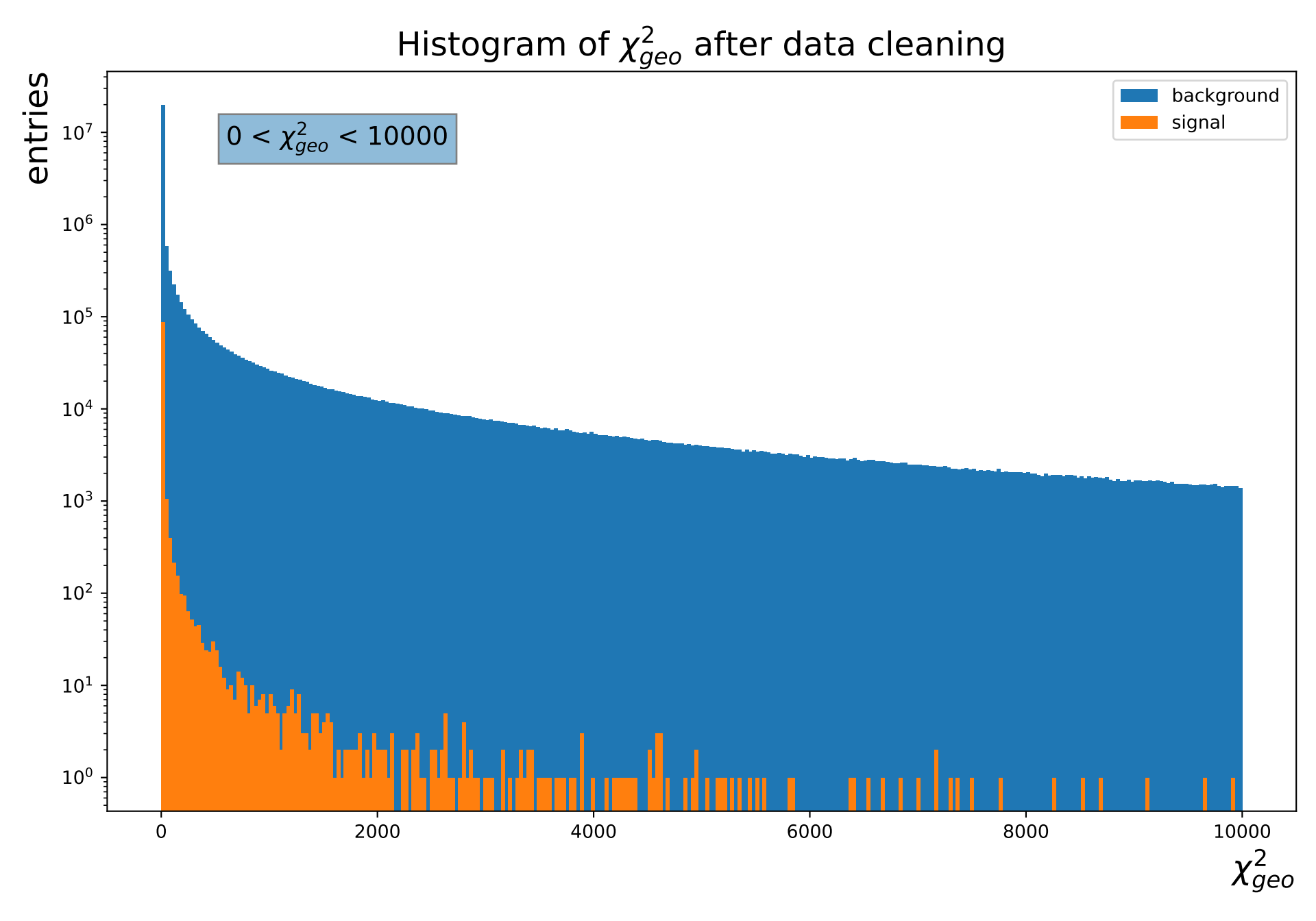
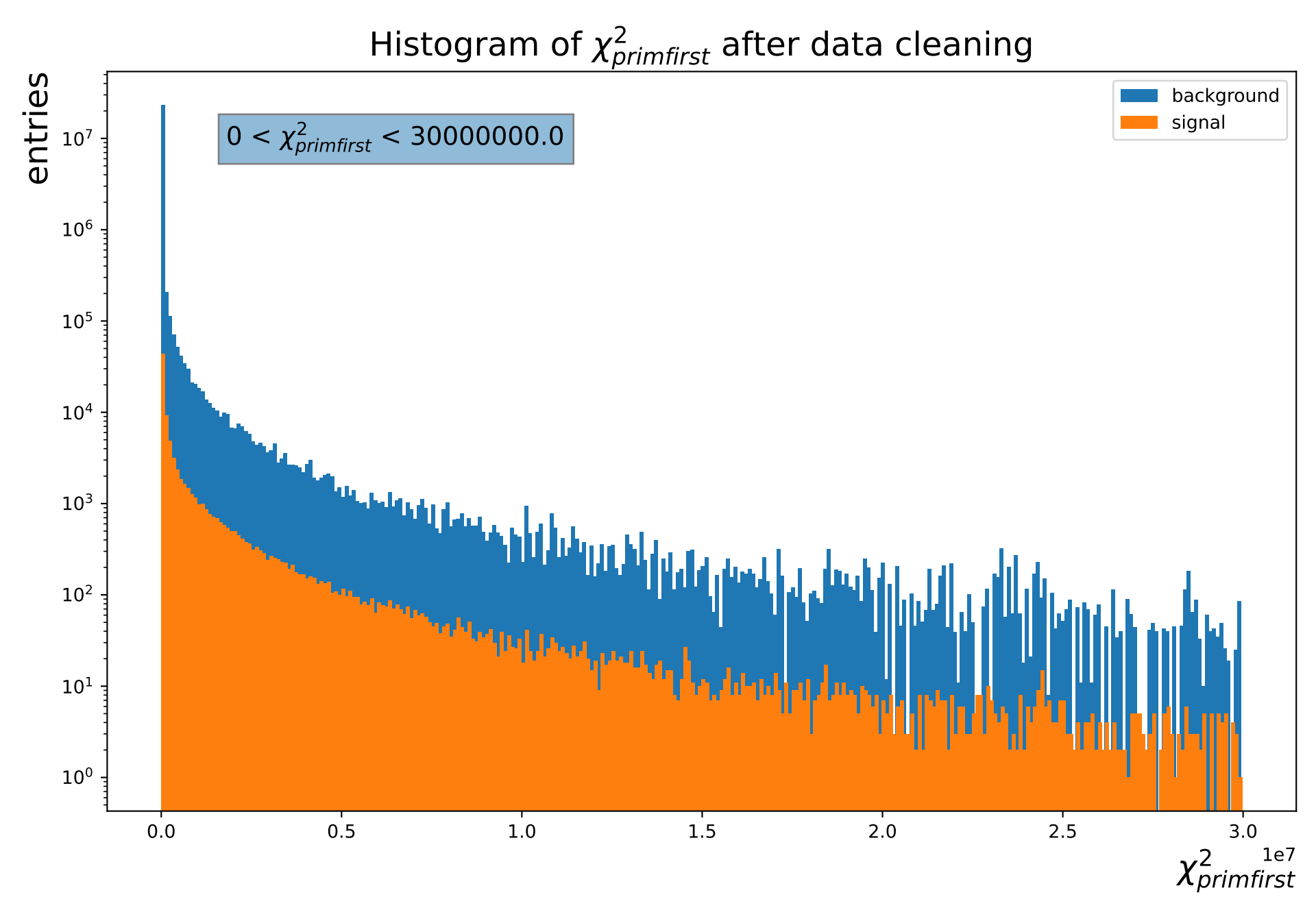
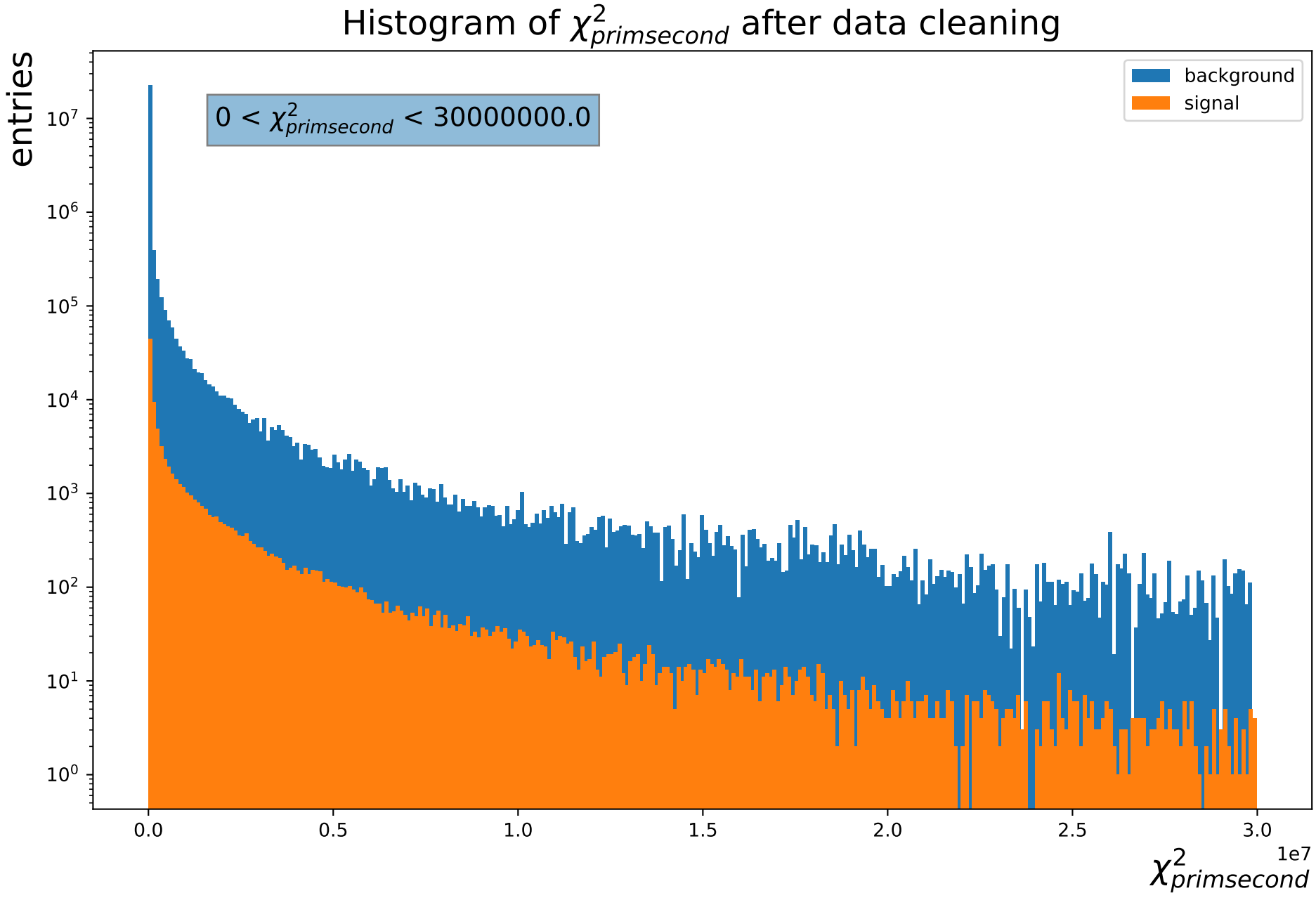
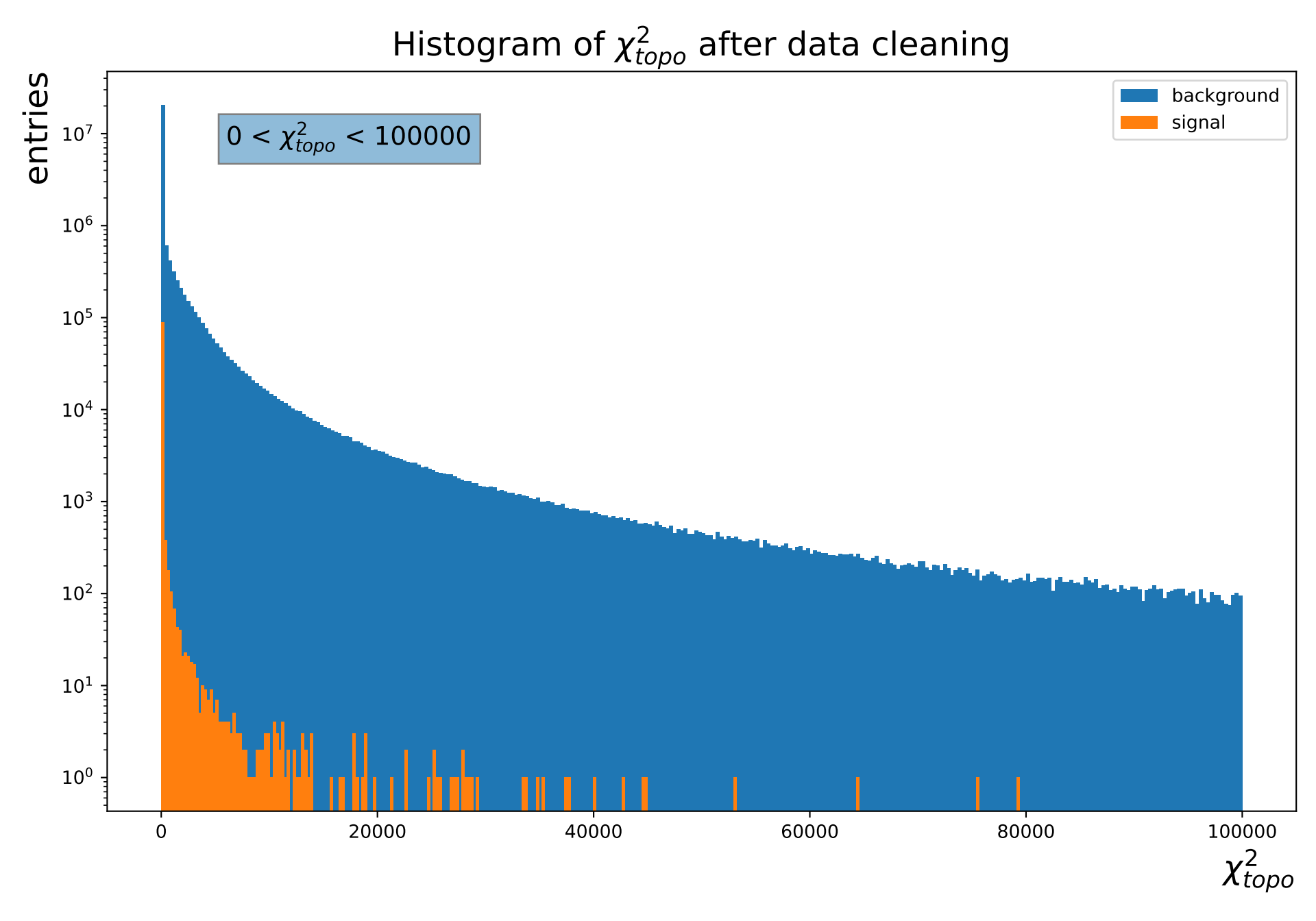
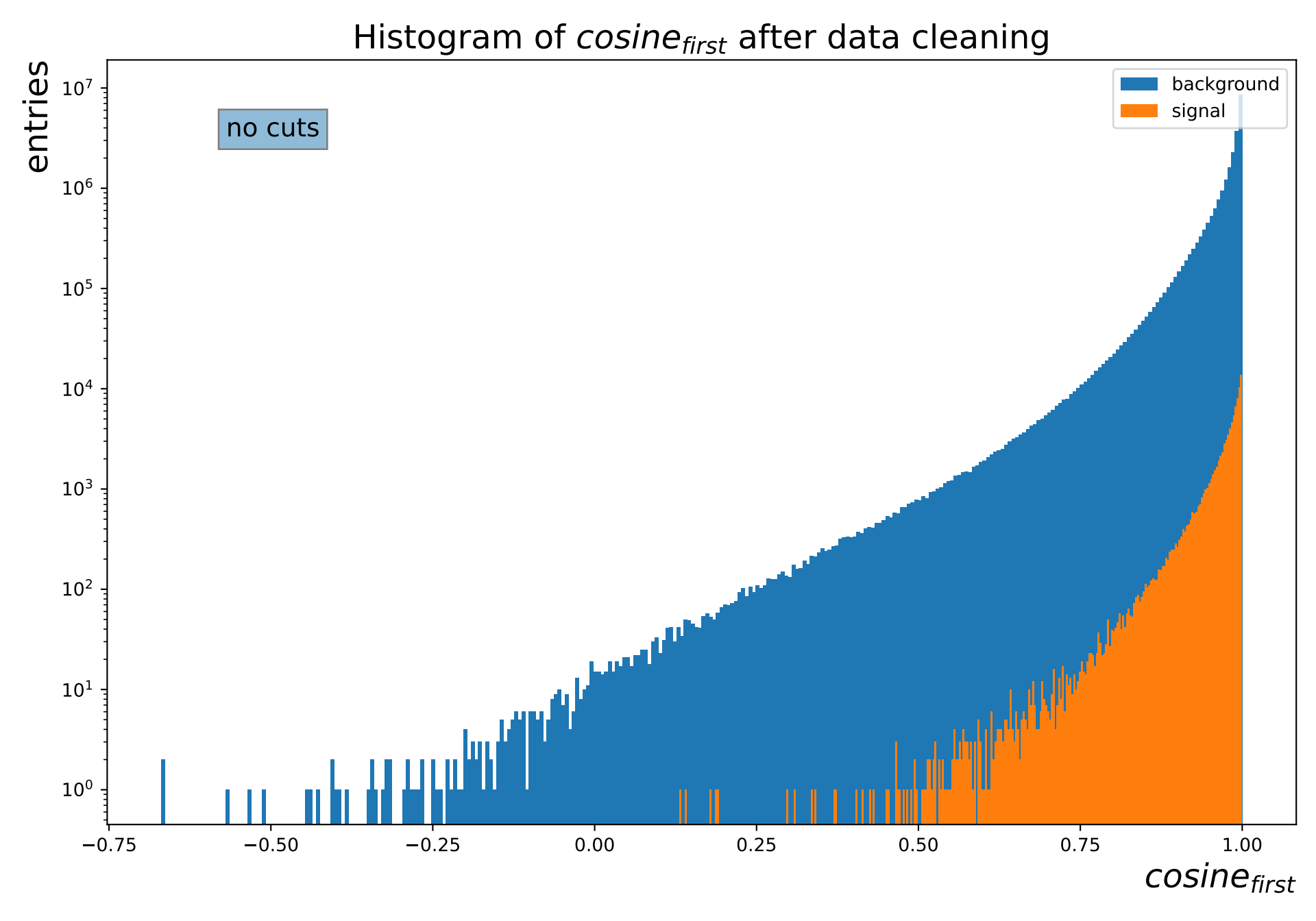
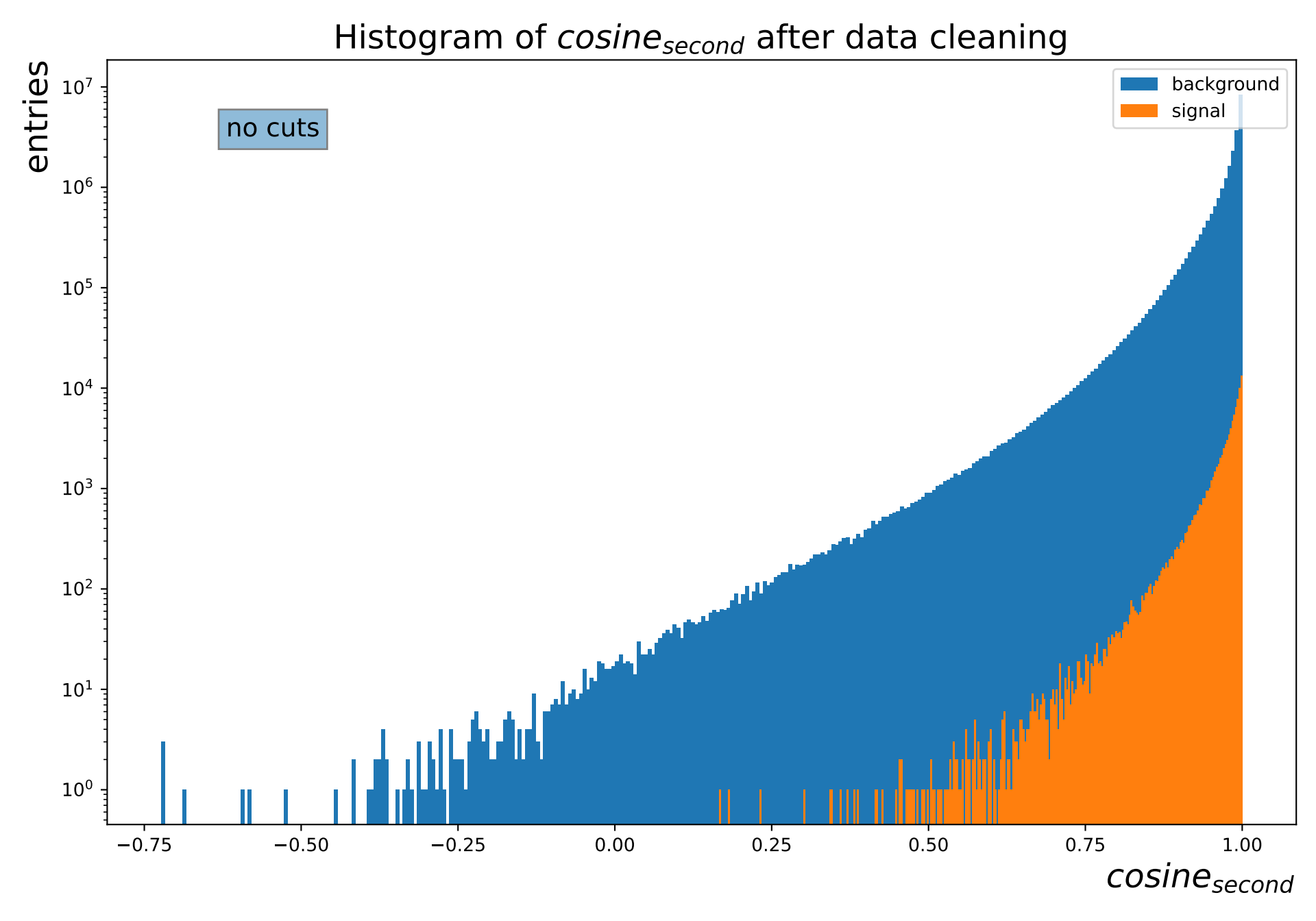

Histogram of χ^2_{geo} after data cleaning
entries
$0 < \chi^2_{geo} < 10000$
background
signal
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
0
2000
4000
6000
8000
10000
χ^2_{geo}

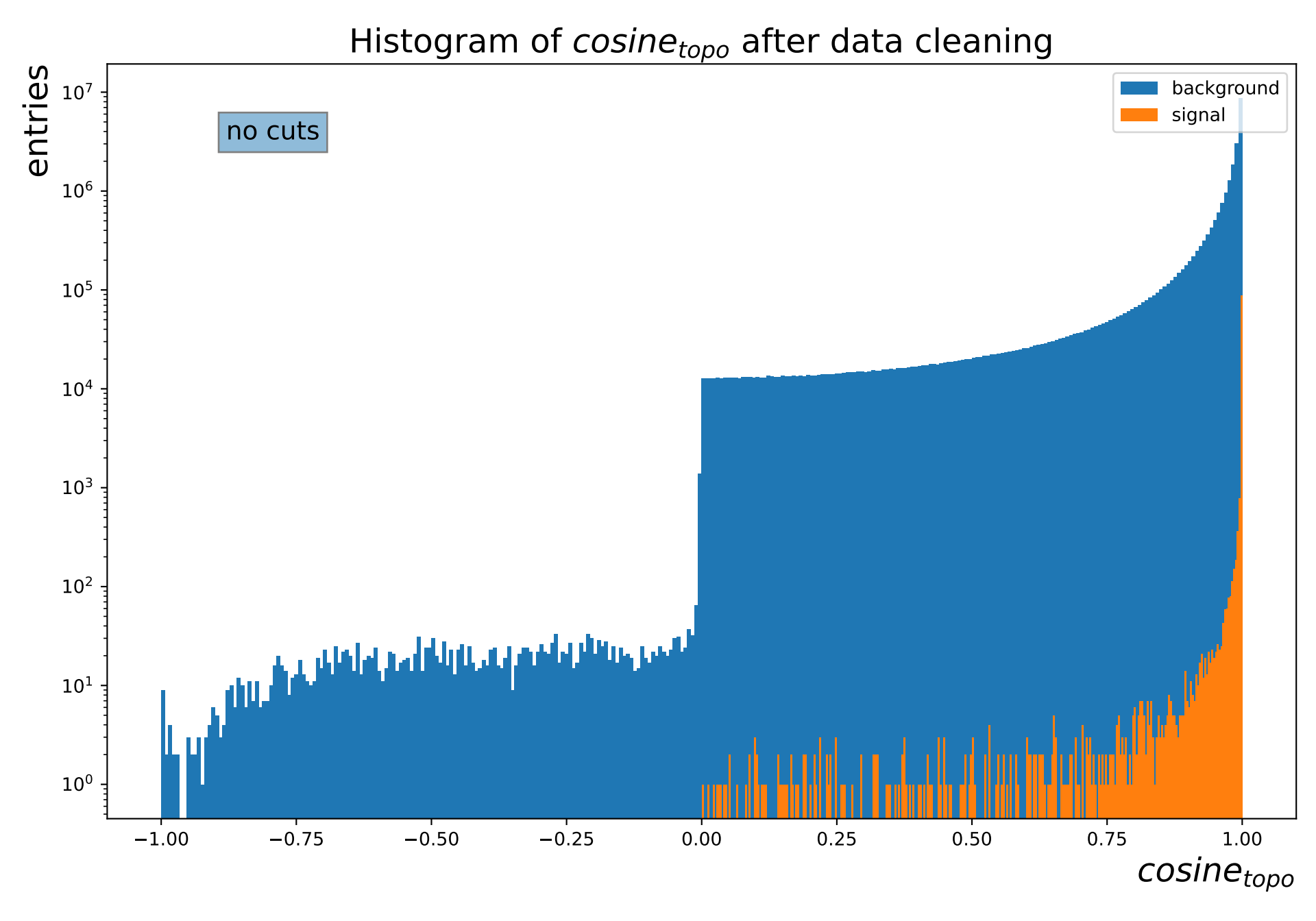

Histogram of $\chi^2_{primfirst}$ after data cleaning
entries
$0 < \chi^2_{primfirst} < 30000000.0$
background
signal
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1e7
$\chi^2_{primfirst}$

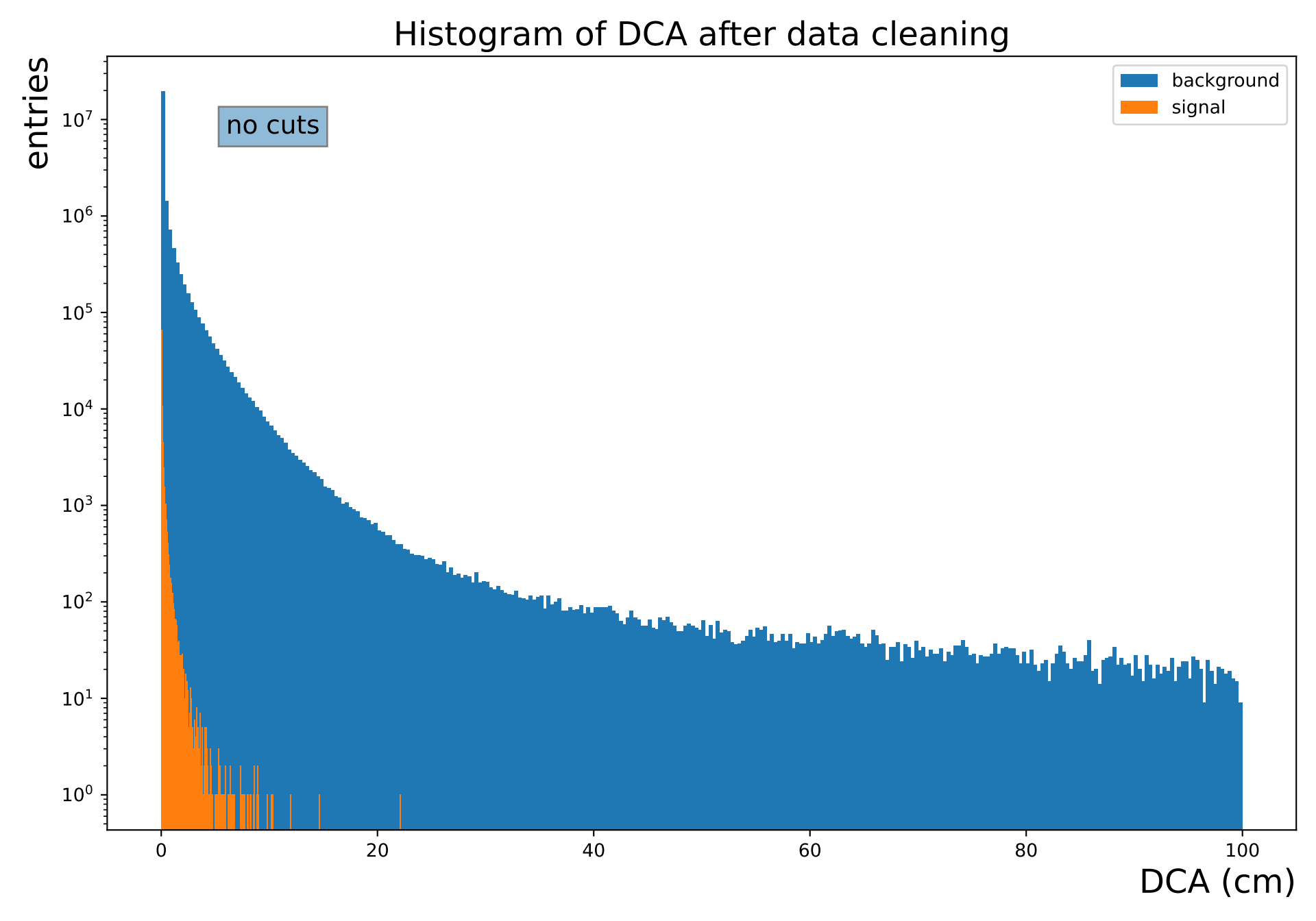

Histogram of $\chi^2_{primsecond}$ after data cleaning
entries
$0 < \chi^2_{primsecond} < 30000000.0$
background
signal
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1e7
$\chi^2_{primsecond}$

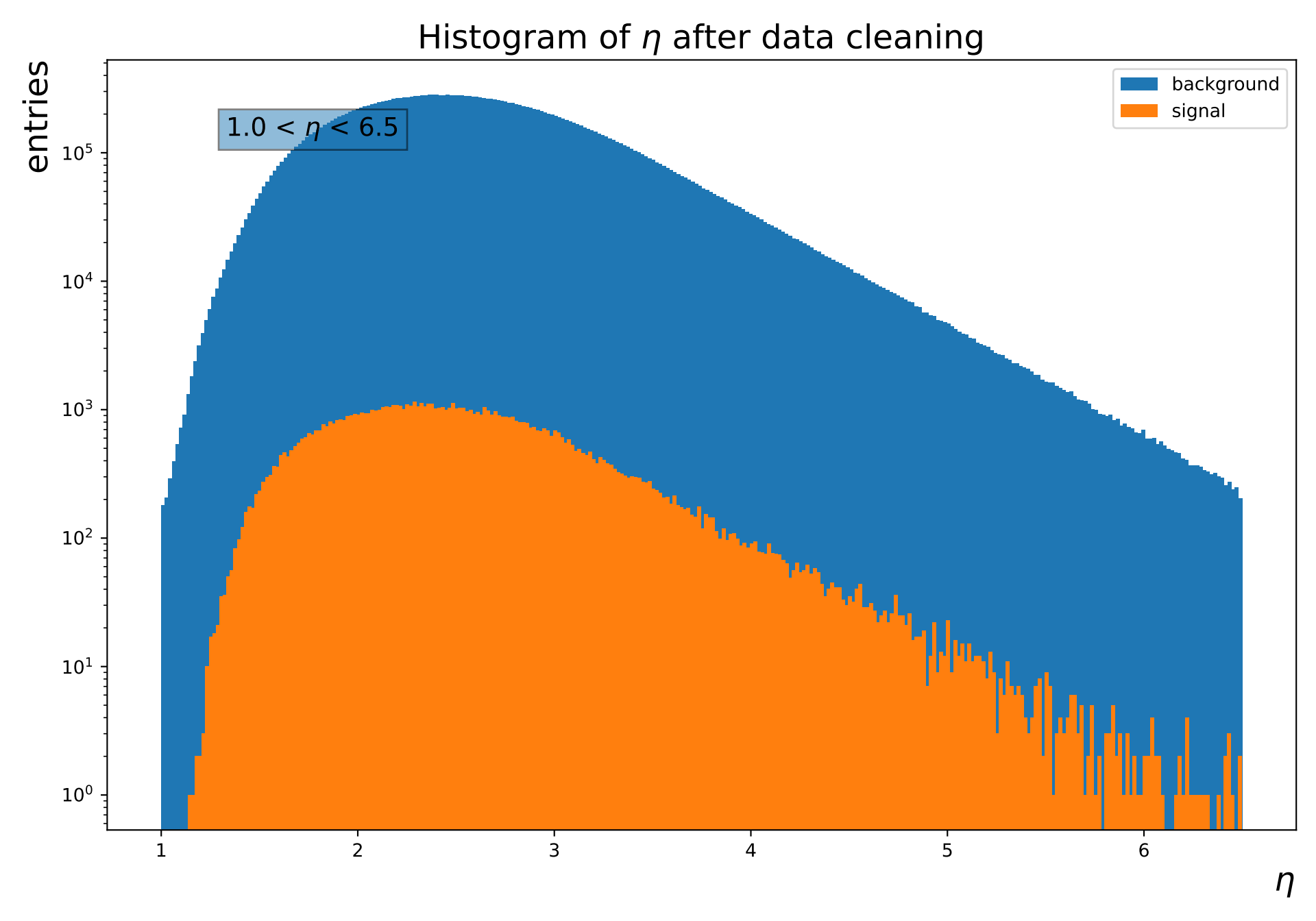

Histogram of χ^2_{topo} after data cleaning
$0 < \chi^2_{topo} < 100000$
background
signal
entries
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
0
20000
40000
60000
80000
100000
χ^2_{topo}

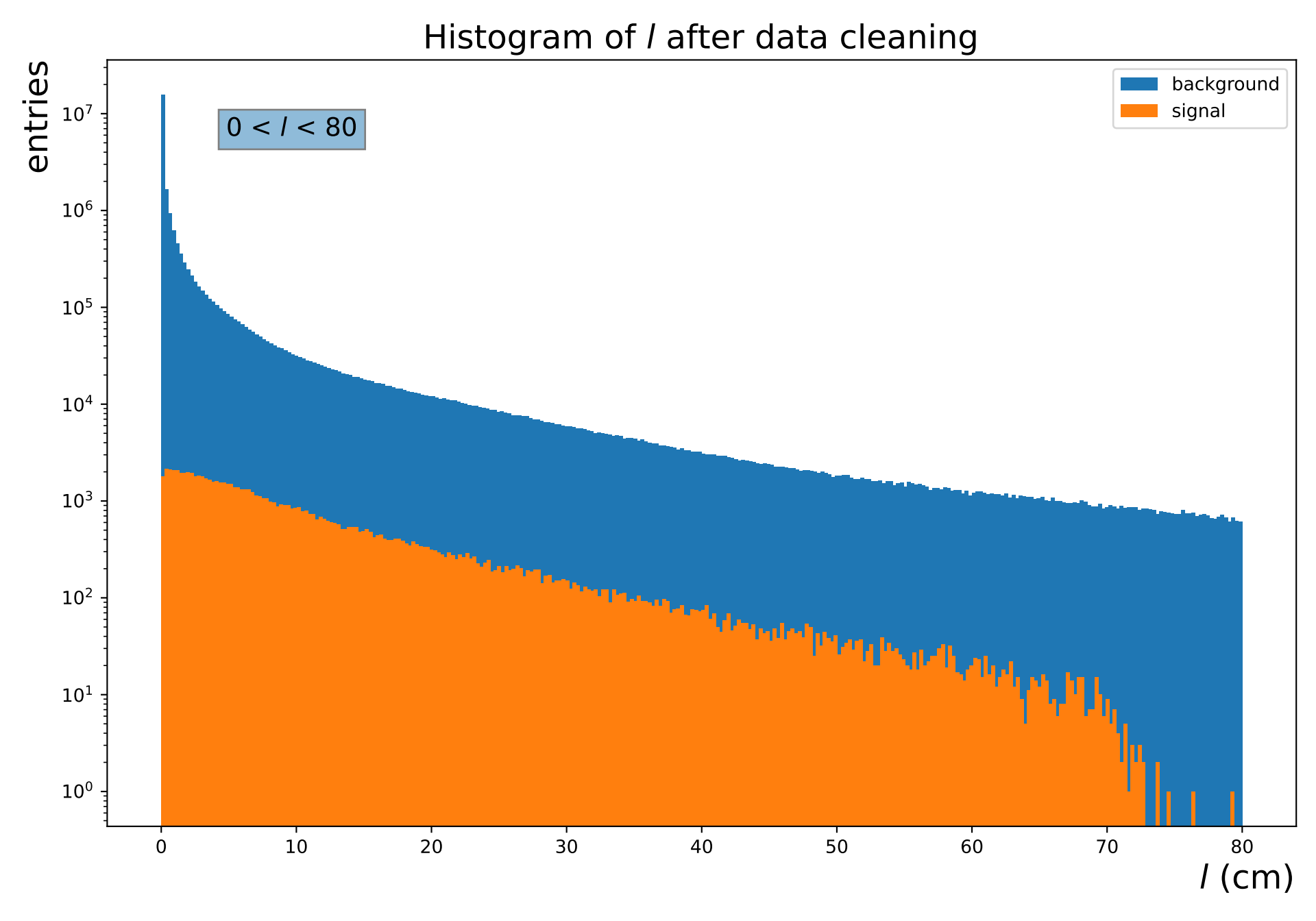

Histogram of $cosine_{first}$ after data cleaning
entries
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
no cuts
background
signal
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00
$cosine_{first}$

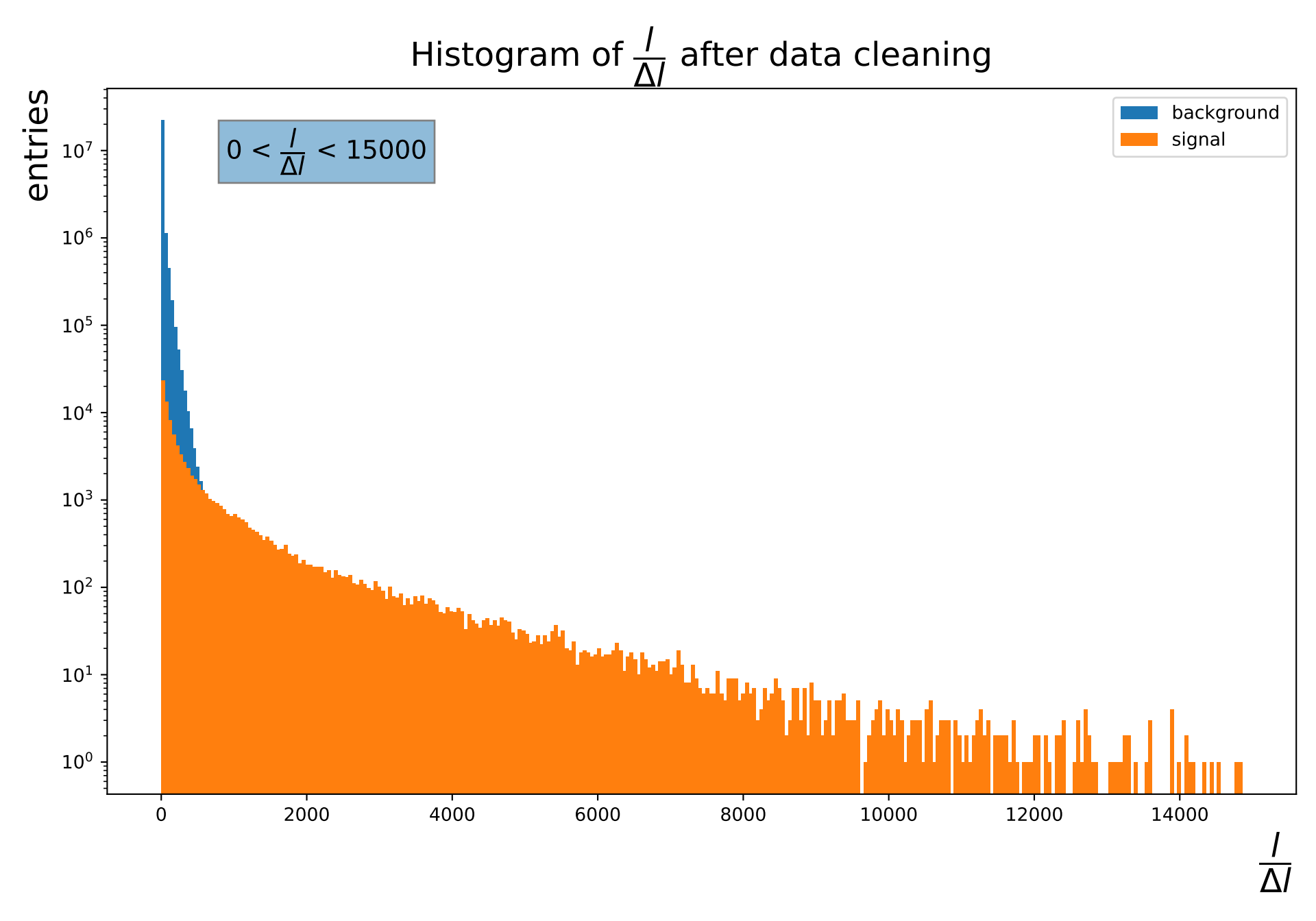

Histogram of $cosine_{second}$ after data cleaning
entries
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
no cuts
background
signal
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00
$cosine_{second}$

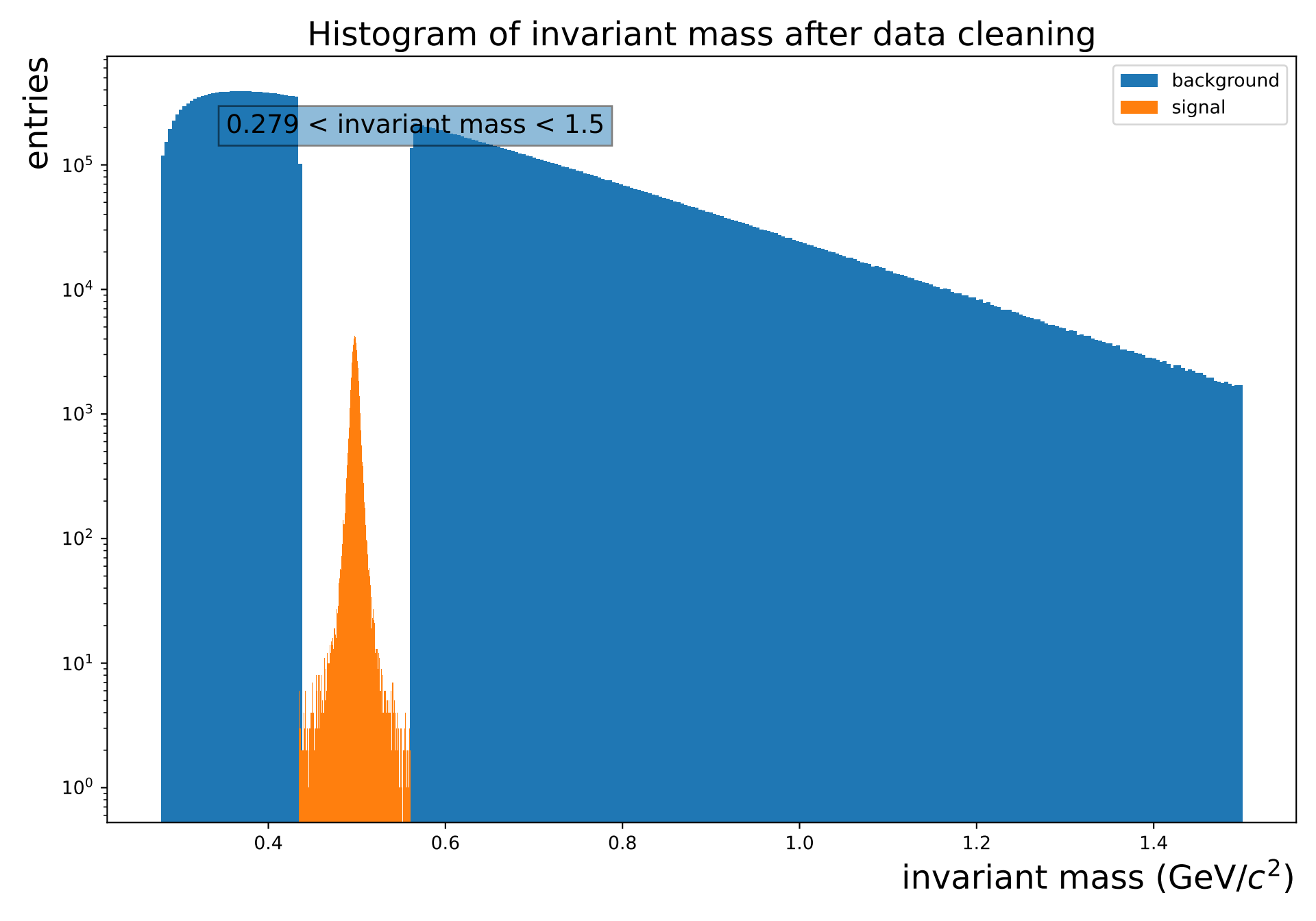

Histogram of $cosine_{topo}$ after data cleaning
entries
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
no cuts
background
signal
−1.00
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
1.00
$cosine_{topo}$

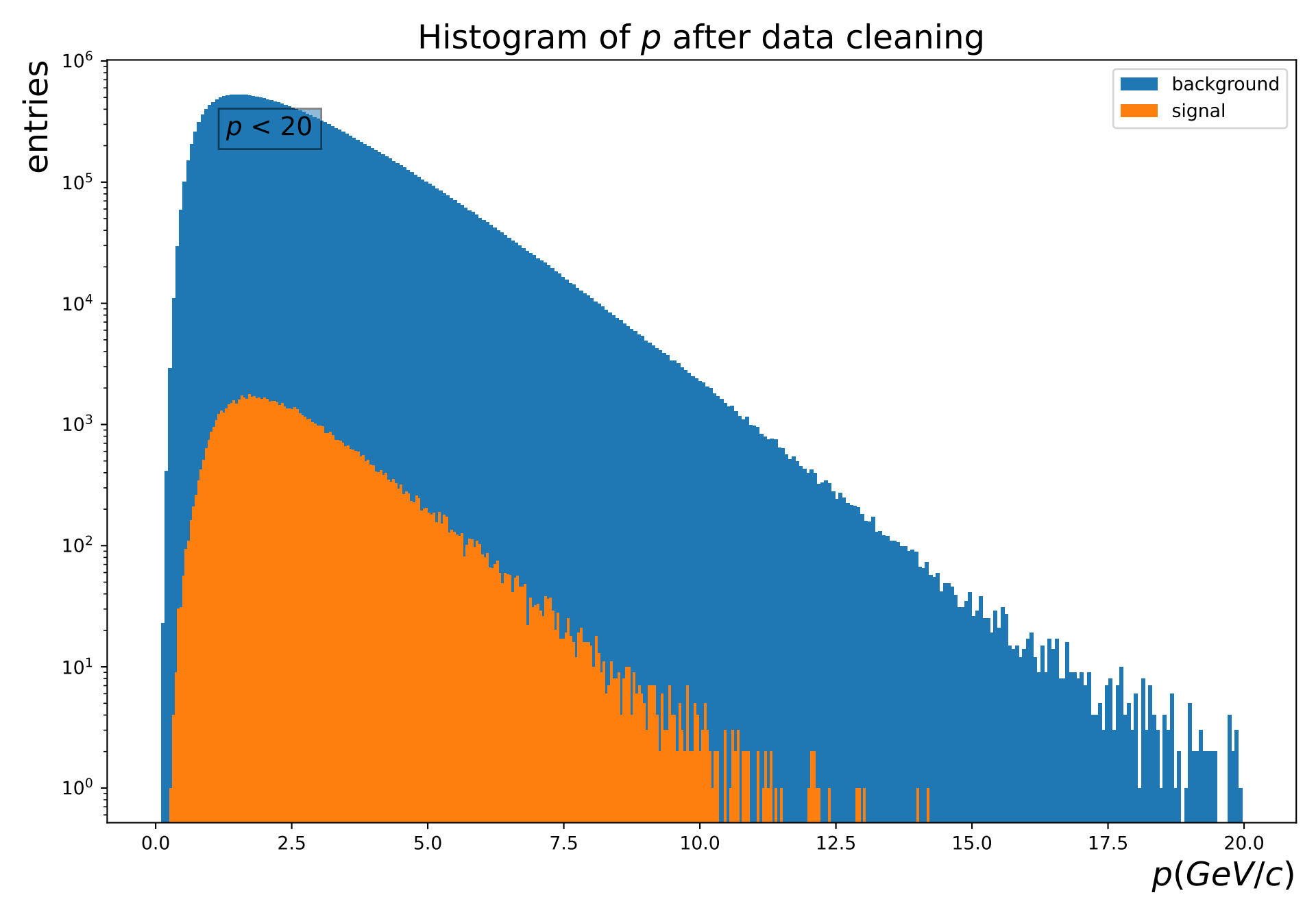

Histogram of DCA after data cleaning
entries
DCA (cm)
no cuts
background
signal
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
0
20
40
60
80
100

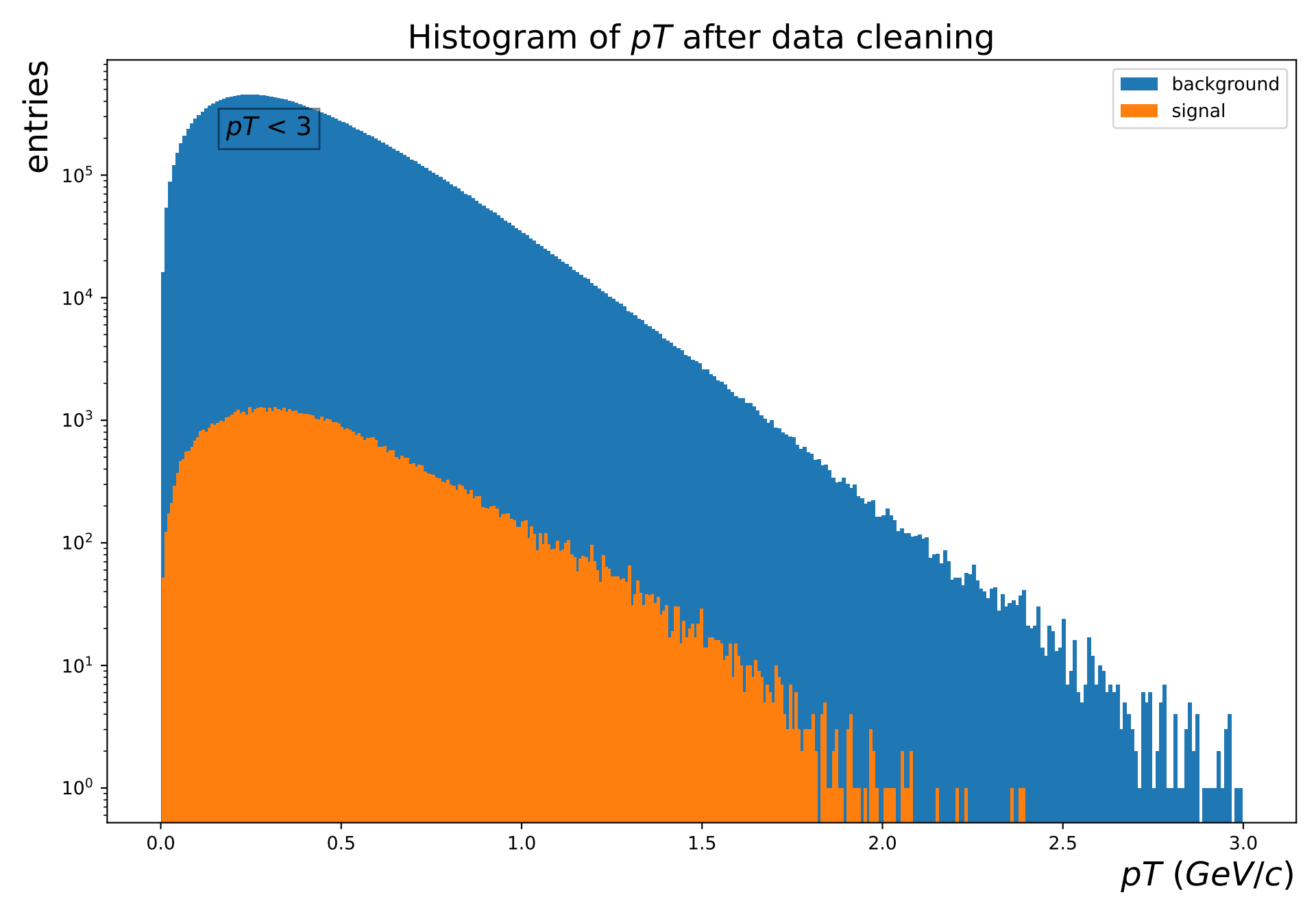

Histogram of η after data cleaning
entries
10^5
10^4
10^3
10^2
10^1
10^0
$1.0 < \eta < 6.5$
background
signal
1
2
3
4
5
6
η

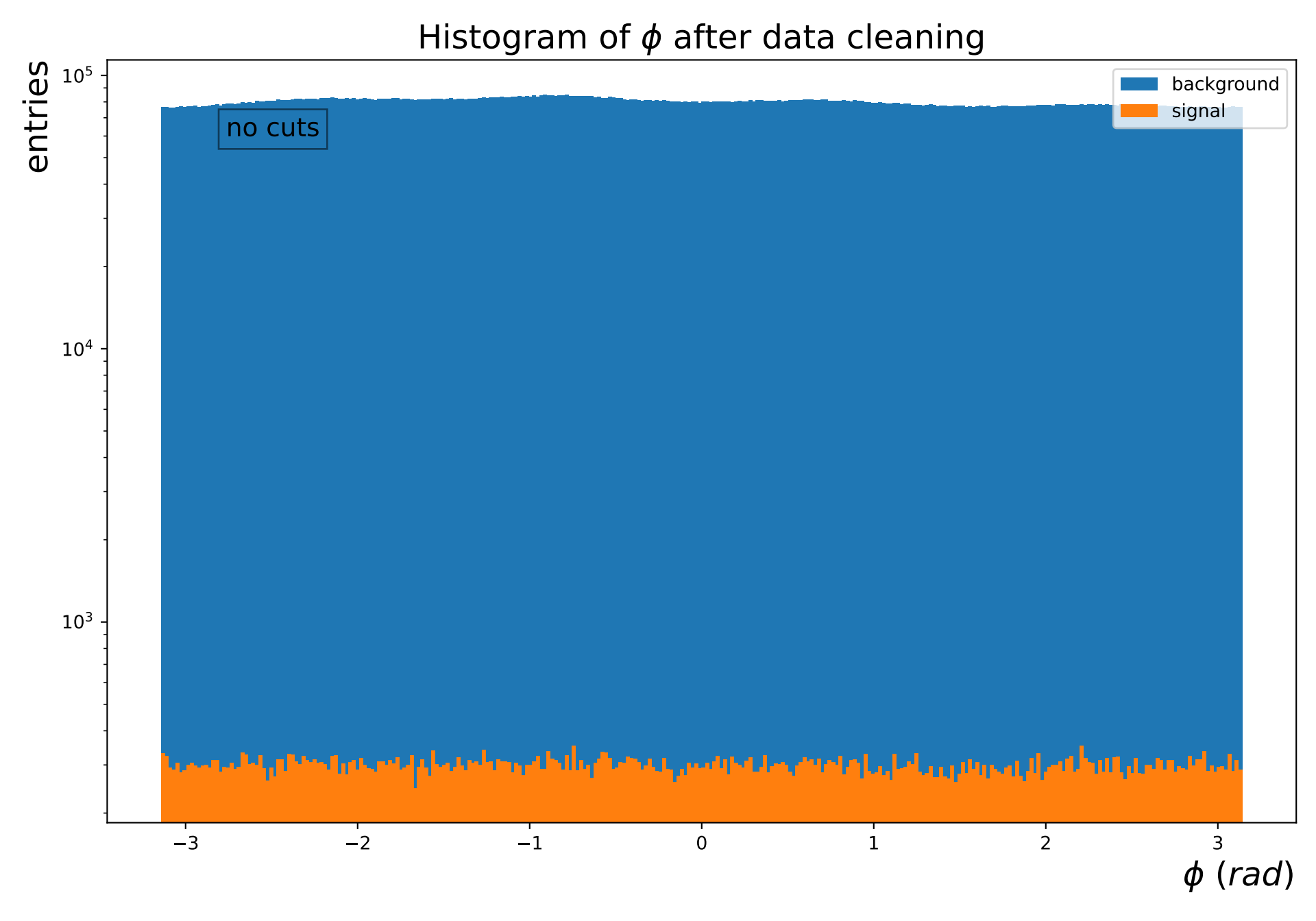

Histogram of l after data cleaning
entries
0 < l < 80
background
signal
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
0
10
20
30
40
50
60
70
80
l (cm)

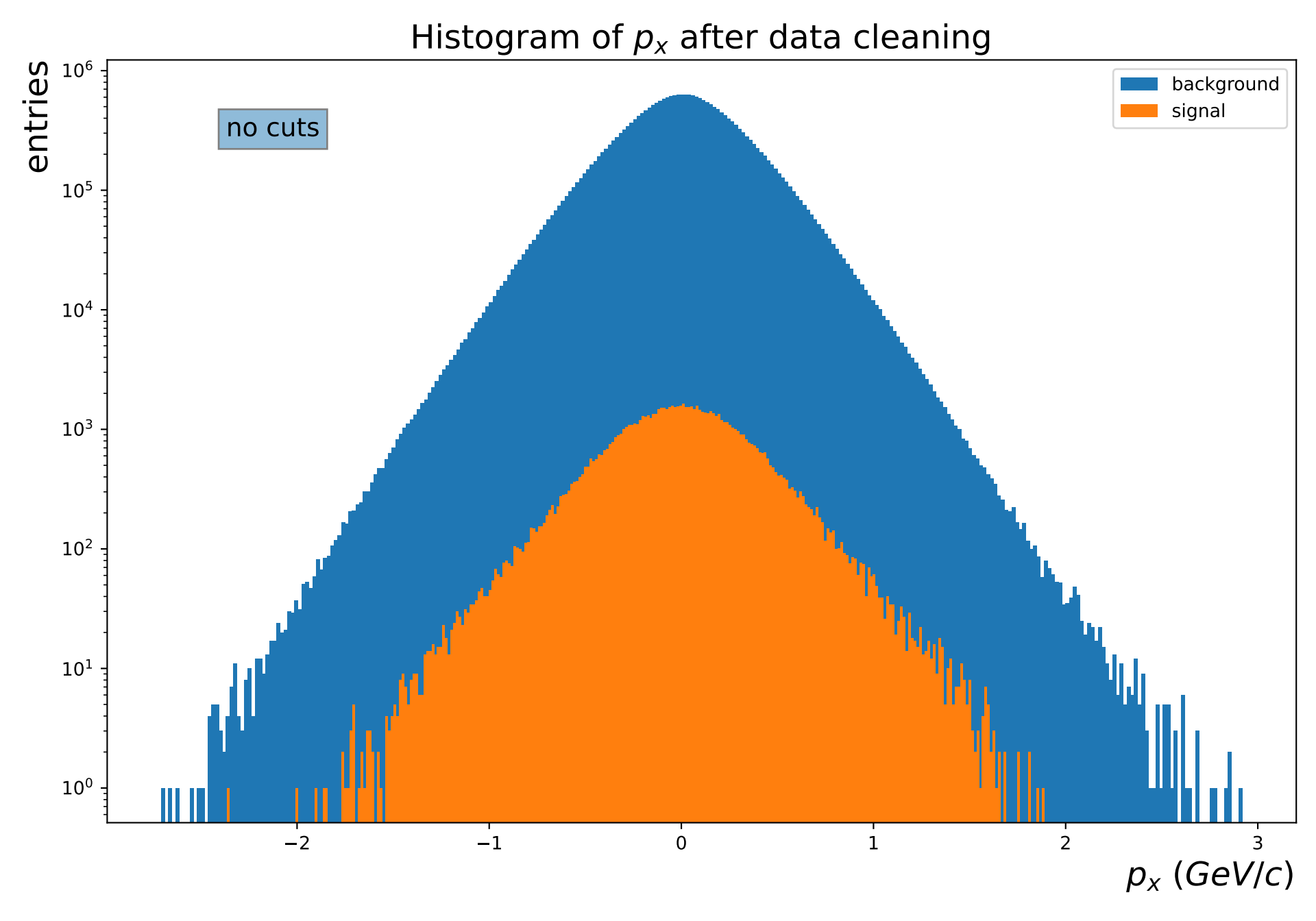

Histogram of $\frac{I}{\Delta I}$ after data cleaning
entries
$0 < \frac{I}{\Delta I} < 15000$
background
signal
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
0
2000
4000
6000
8000
10000
12000
14000
$\frac{I}{\Delta I}$

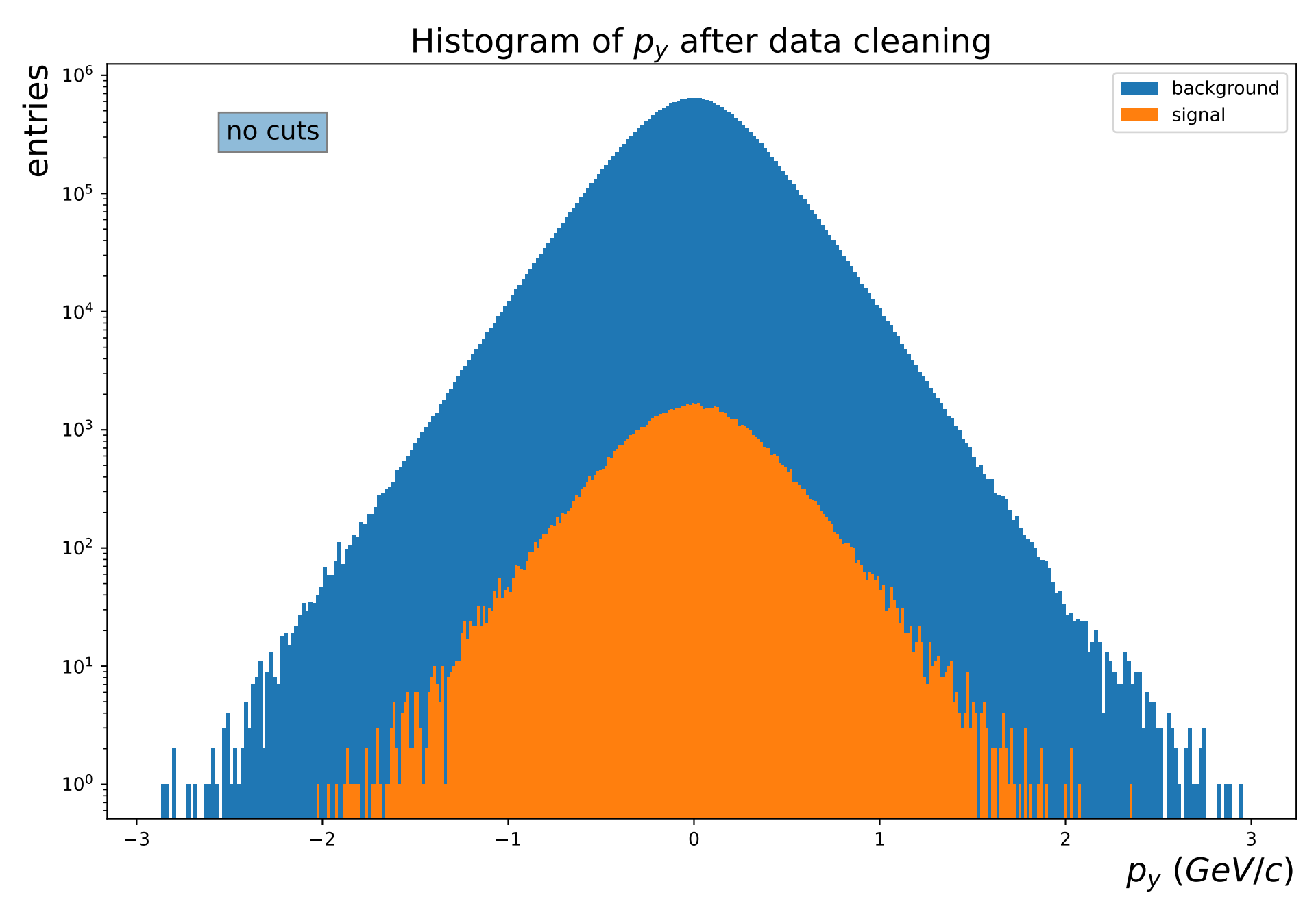

Histogram of invariant mass after data cleaning
entries
0.279 < invariant mass < 1.5
background
signal
10^5
10^4
10^3
10^2
10^1
10^0
0.4
0.6
0.8
1.0
1.2
1.4
invariant mass (GeV/c^2)

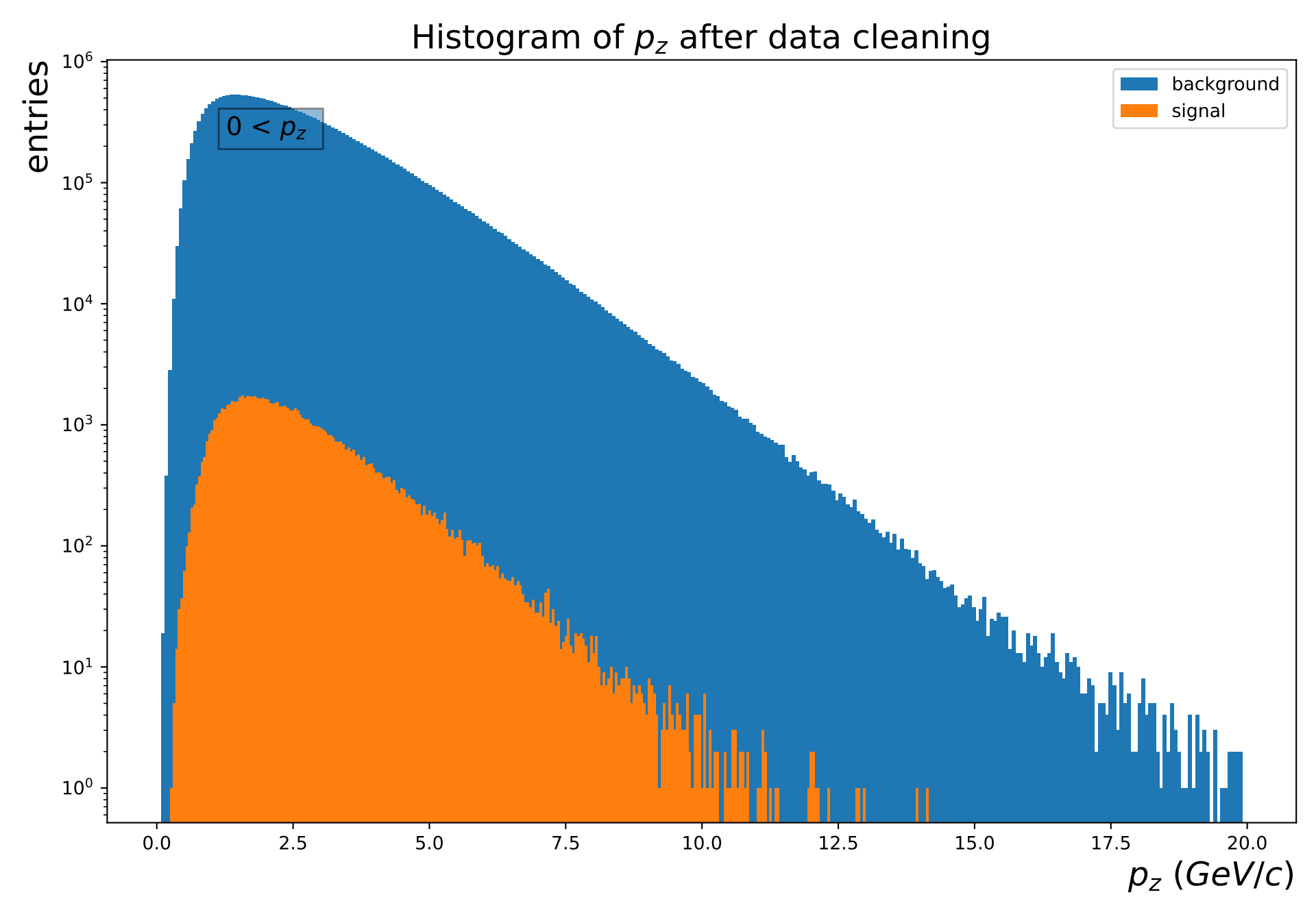

Histogram of p after data cleaning
entries
10^6
10^5
10^4
10^3
10^2
10^1
10^0
$p < 20$
background
signal
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
$p(GeV/c)$

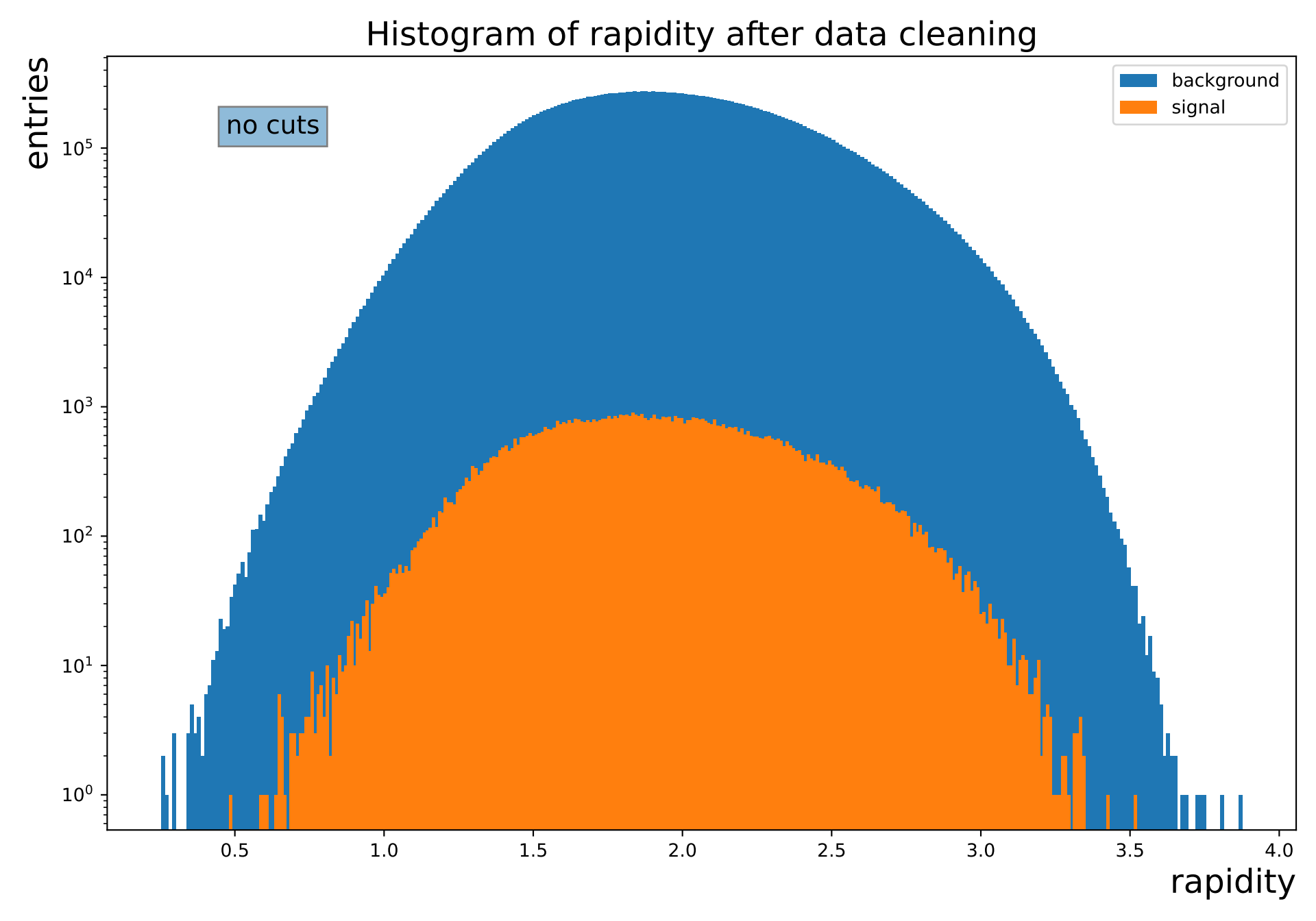

Histogram of pT after data cleaning
entries
pT < 3
background
signal
10^5
10^4
10^3
10^2
10^1
10^0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
pT (GeV/c)

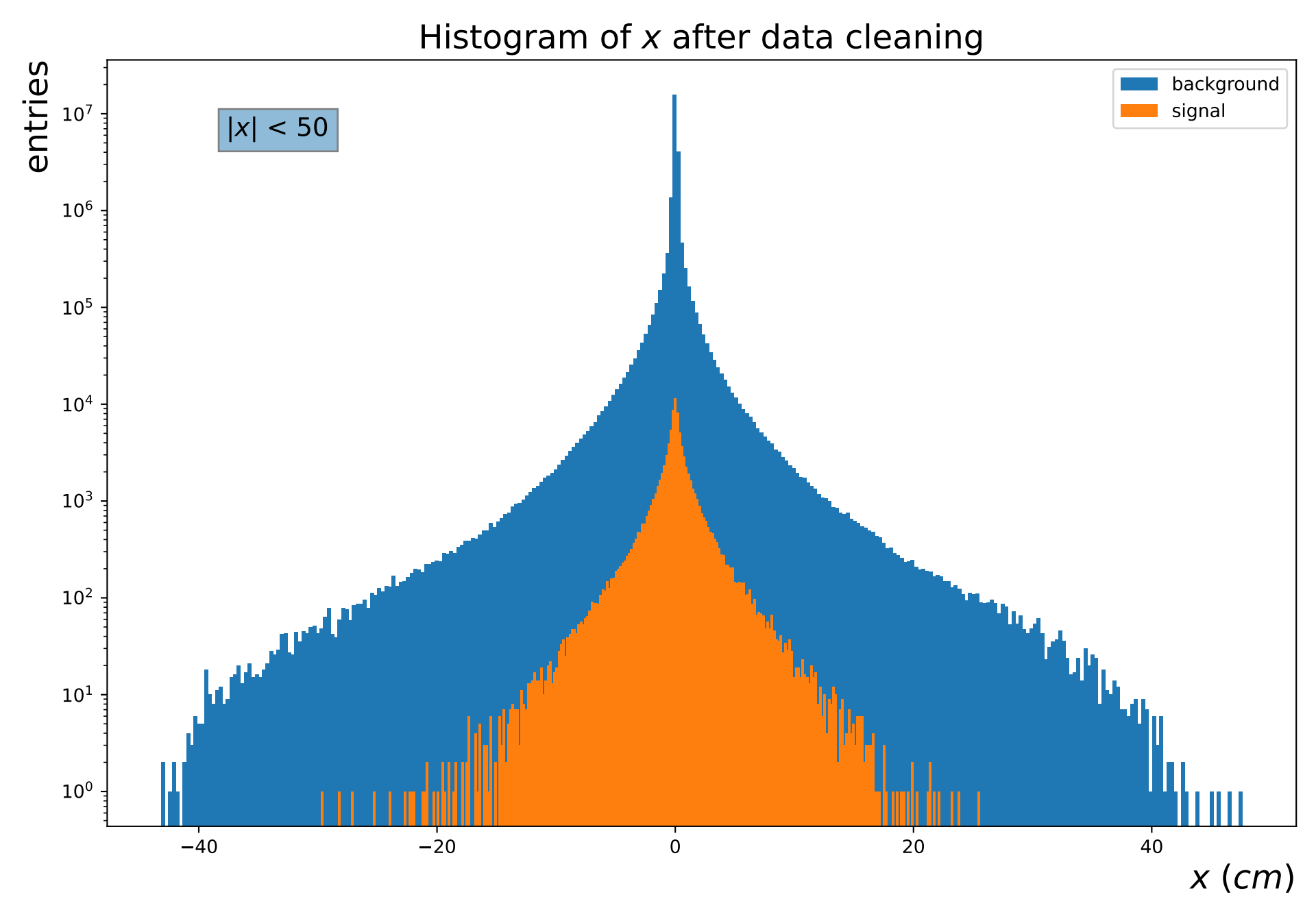

Histogram of ϕ after data cleaning
entries
10^5
10^4
10^3
no cuts
background
signal
−3
−2
−1
0
1
2
3
ϕ (*rad*)

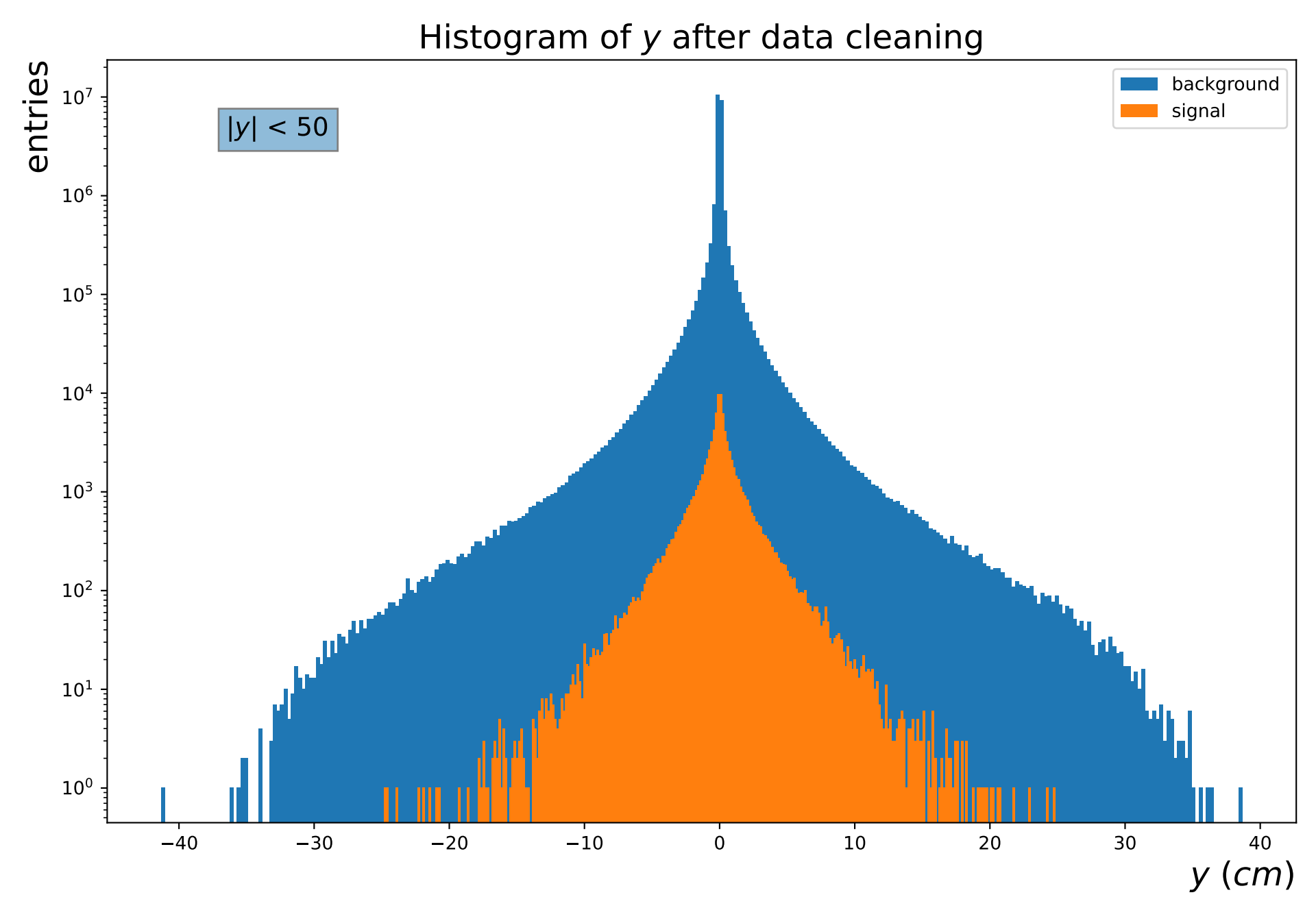

Histogram of p_x after data cleaning
entries
10^6
10^5
10^4
10^3
10^2
10^1
10^0
no cuts
background
signal
−2
−1
0
1
2
3
p_x (GeV/c)

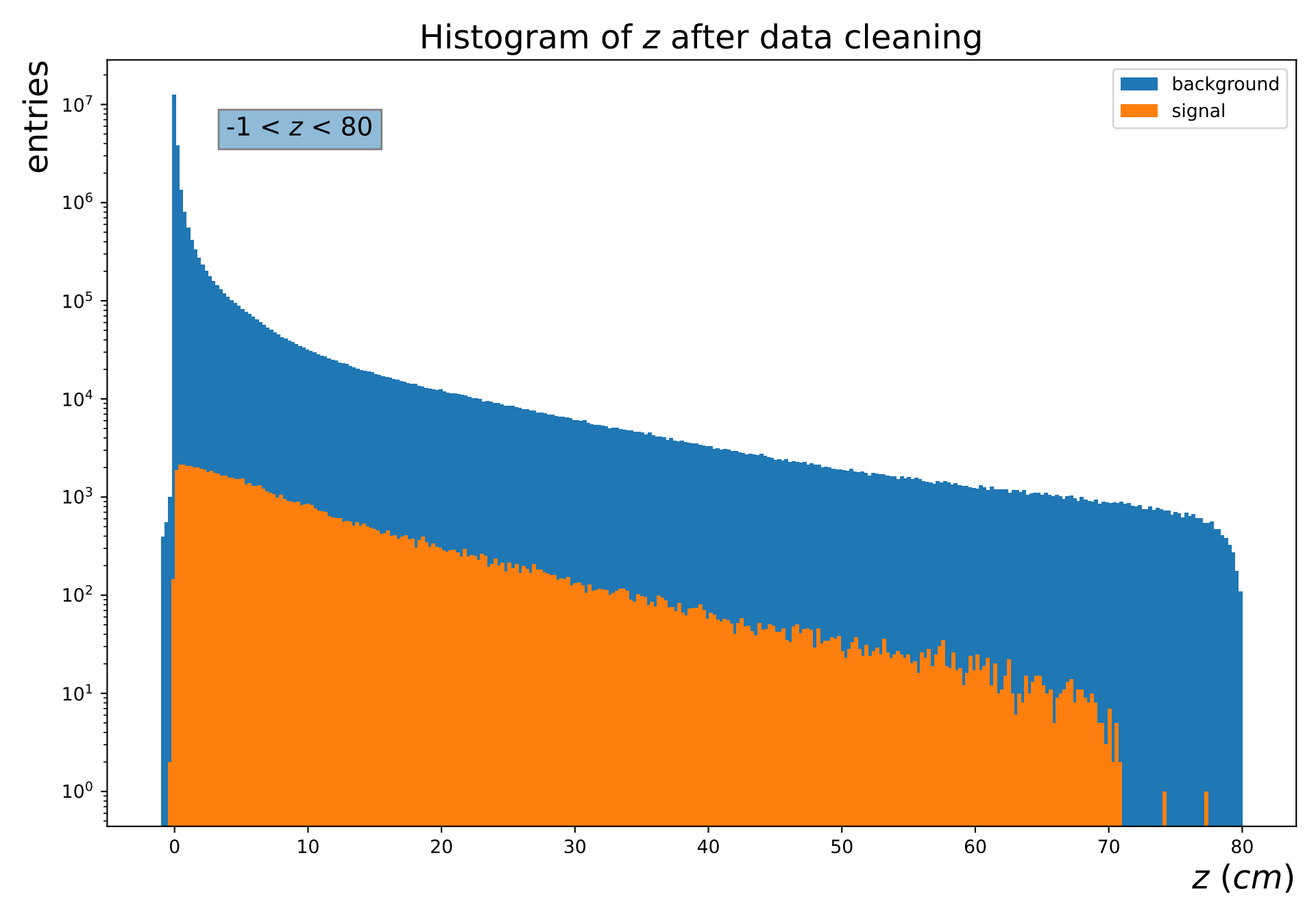

Histogram of p_y after data cleaning
entries
10^6
10^5
10^4
10^3
10^2
10^1
10^0
no cuts
background
signal
−3
−2
−1
0
1
2
3
p_y (GeV/c)


Histogram of p_z after data cleaning
entries
10^6
10^5
10^4
10^3
10^2
10^1
10^0
$0 < p_z$
background
signal
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
p_z (GeV/c)


Histogram of rapidity after data cleaning
entries
rapidity
no cuts
background
signal
10^5
10^4
10^3
10^2
10^1
10^0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0


Histogram of x after data cleaning
entries
$|x| < 50$
background
signal
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
−40
−20
0
20
40
x (cm)


Histogram of y after data cleaning
entries
$|y| < 50$
background
signal
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
−40
−30
−20
−10
0
10
20
30
40
y (cm)


Histogram of z after data cleaning
entries
-1 < z < 80
background
signal
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
0
10
20
30
40
50
60
70
80
z (cm)