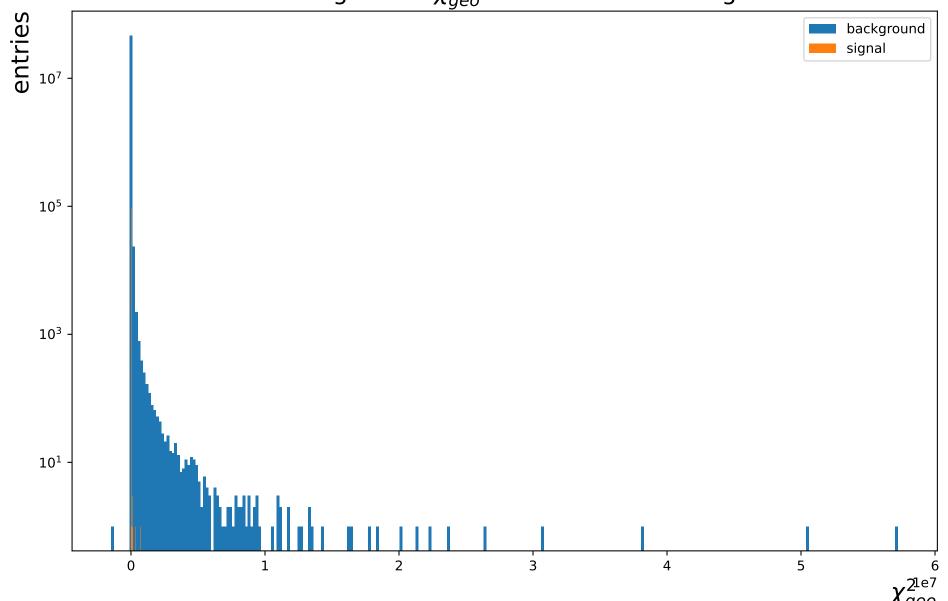
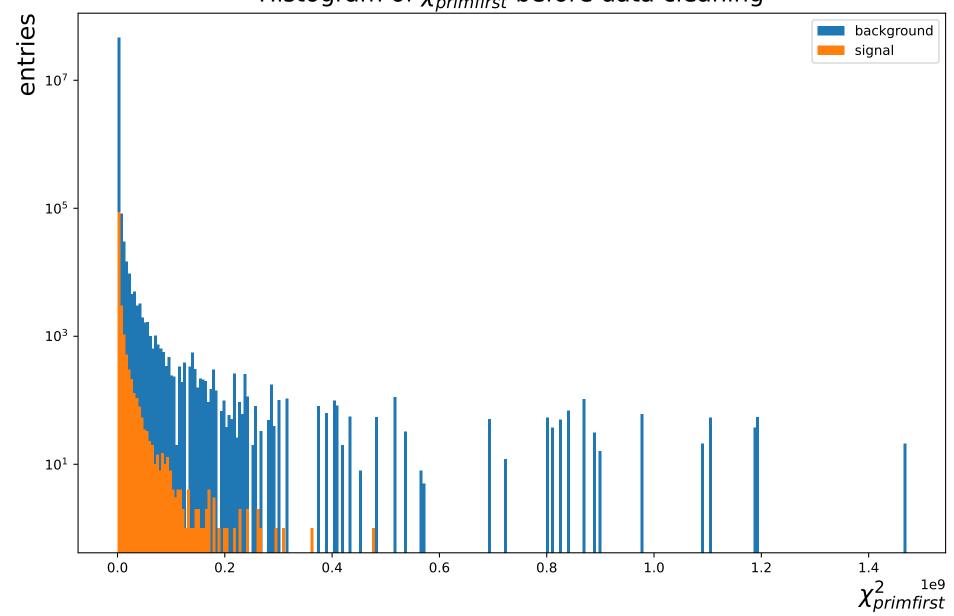
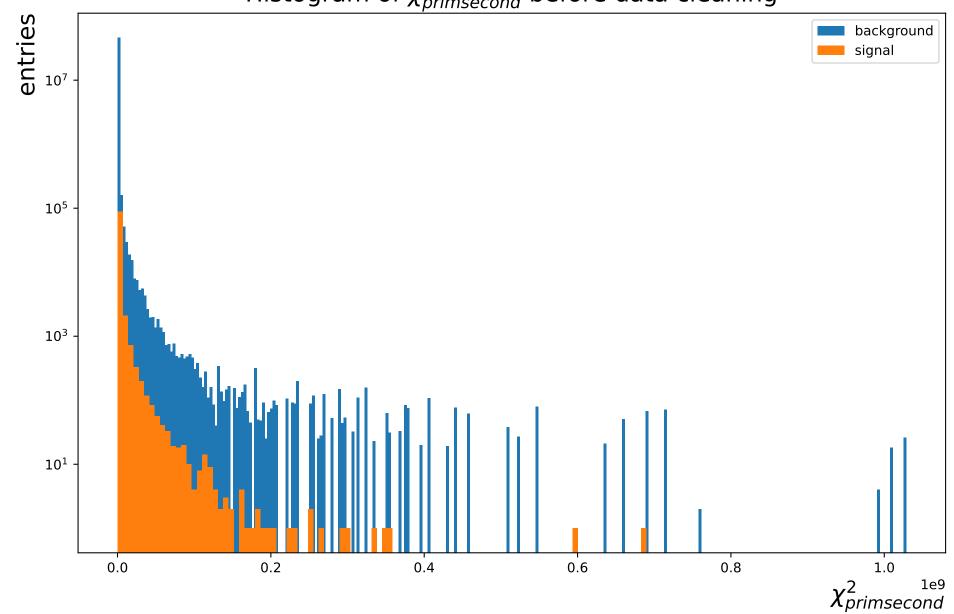
Histogram of χ^2_{geo} before data cleaning



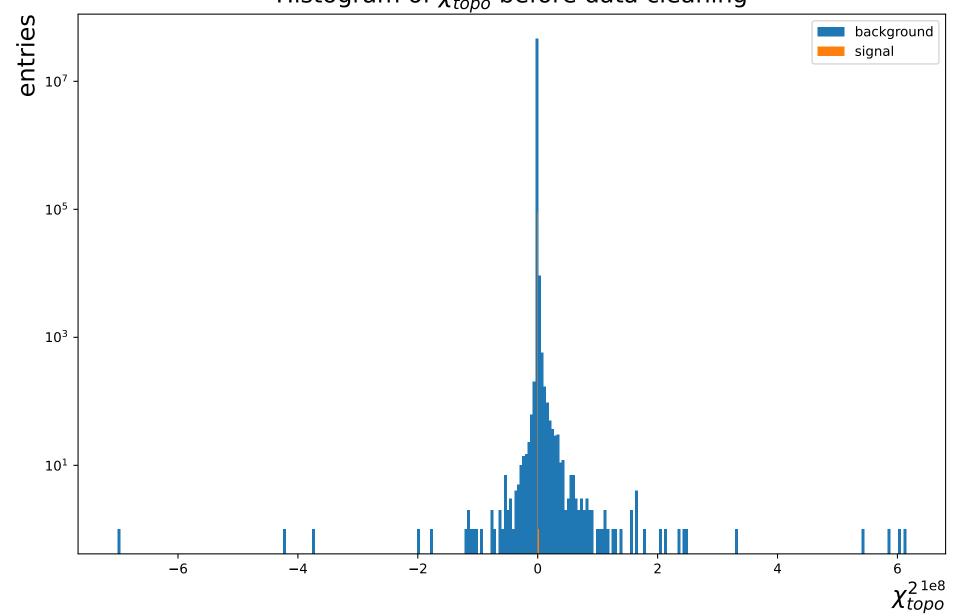
Histogram of $\chi^2_{primfirst}$ before data cleaning



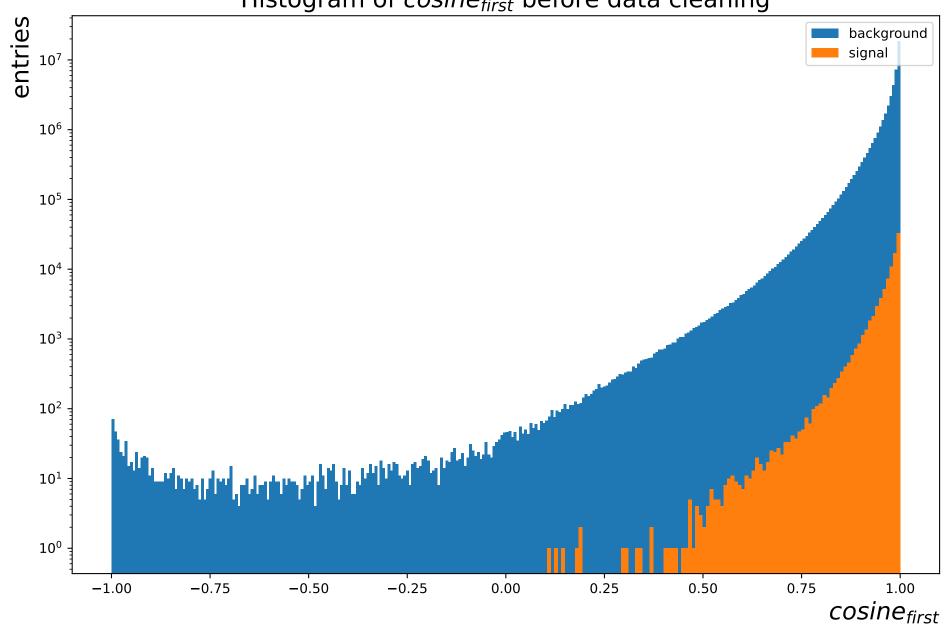
Histogram of $\chi^2_{primsecond}$ before data cleaning



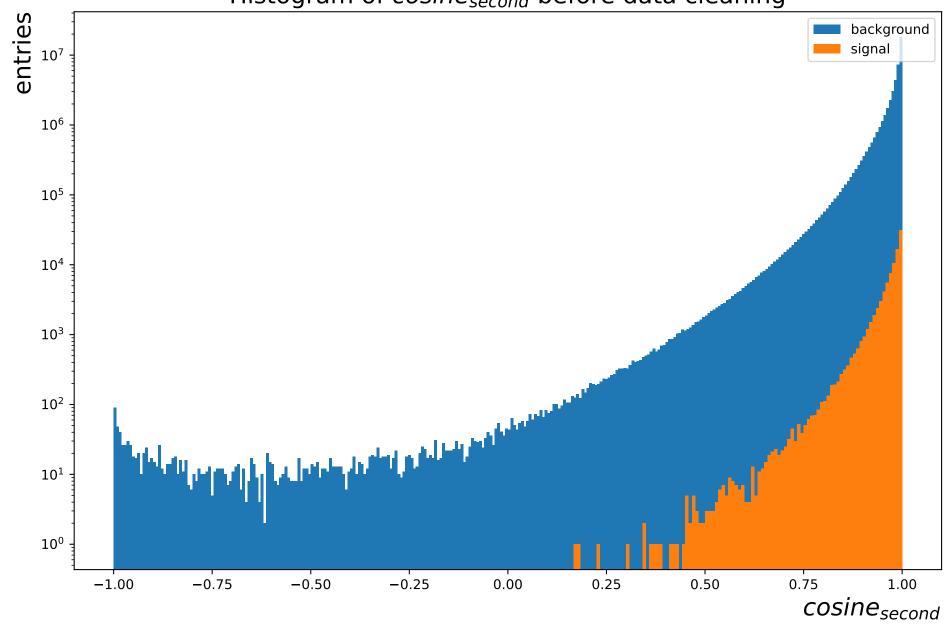
Histogram of χ^2_{topo} before data cleaning

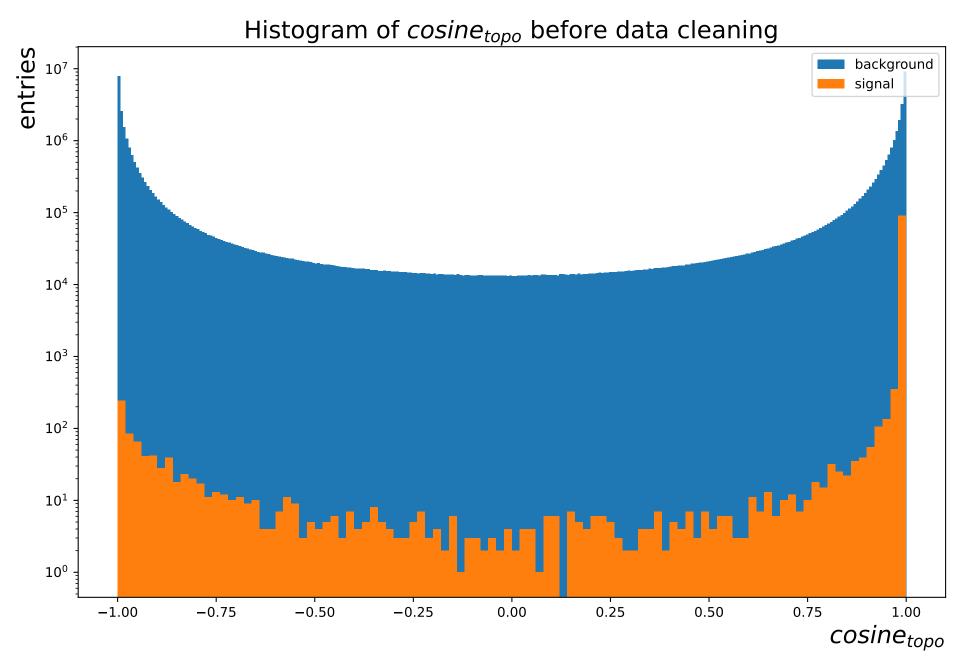


Histogram of cosine first before data cleaning

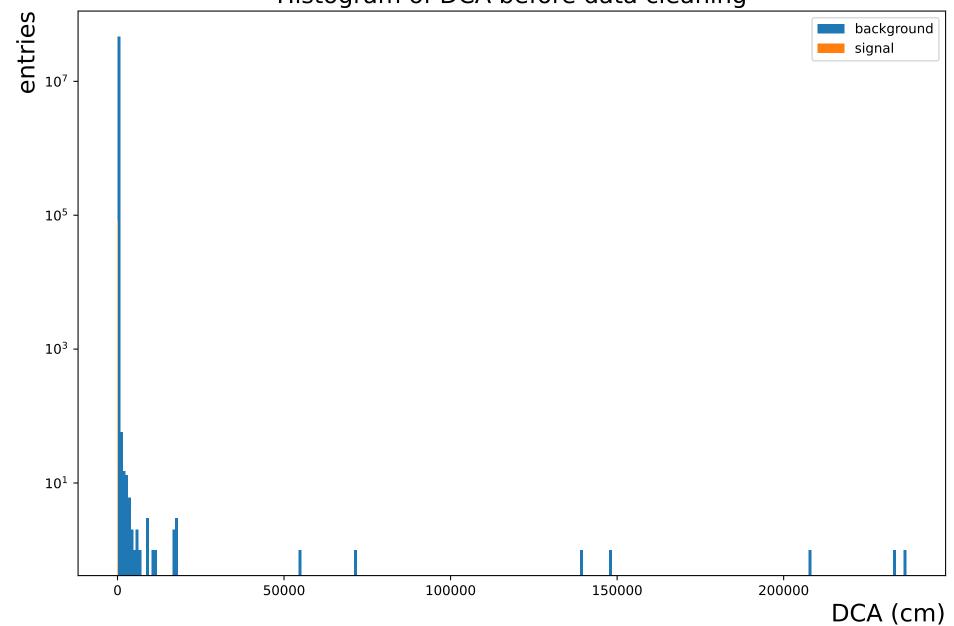


Histogram of cosine second before data cleaning

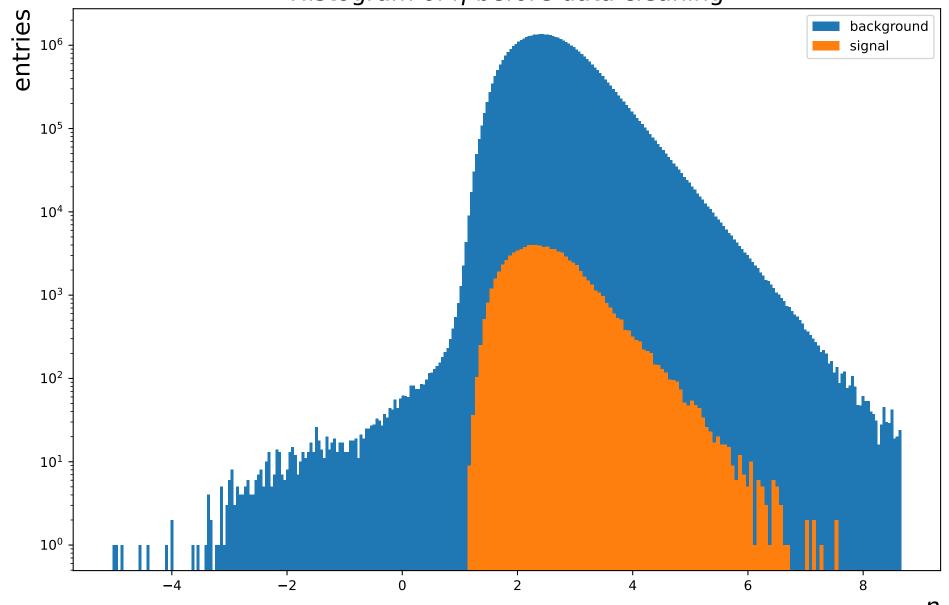




Histogram of DCA before data cleaning

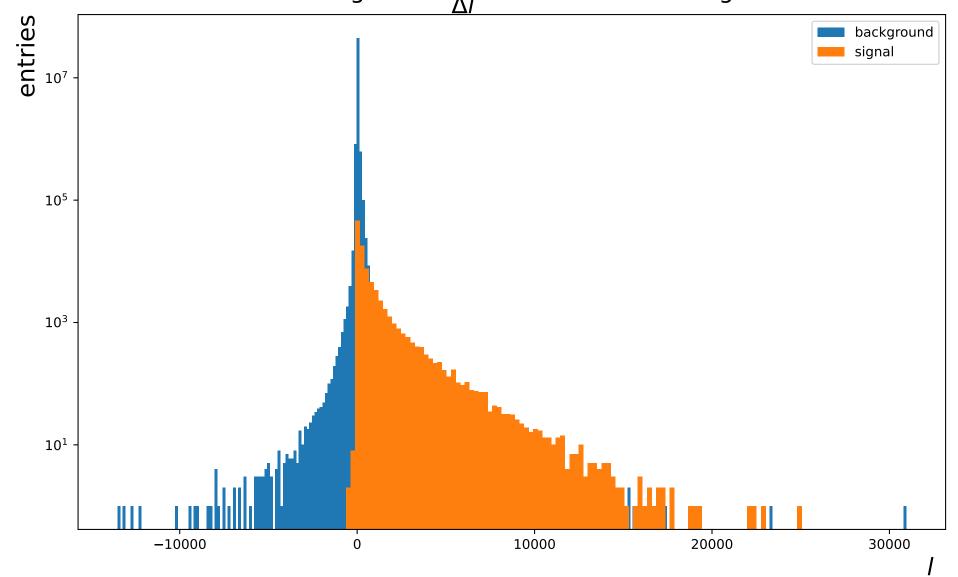


Histogram of η before data cleaning



Histogram of I before data cleaning entries background signal 10⁵ -10³ -10¹ -4000 -2000 2000 -4000 / (cm)

Histogram of $\frac{I}{\Lambda I}$ before data cleaning

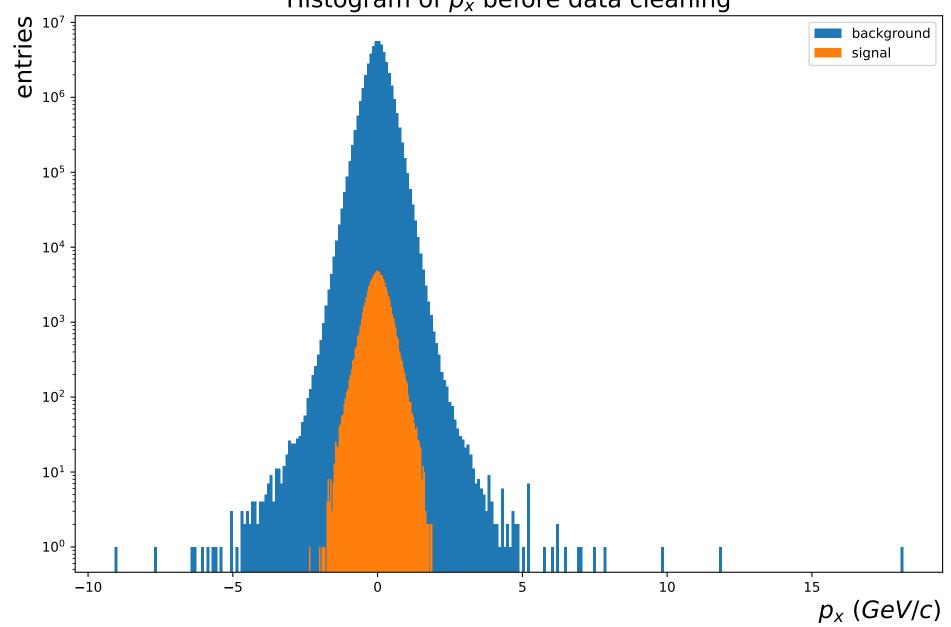


Histogram of invariant mass before data cleaning entries background 10⁶ signal 10^{5} 10^{4} 10³ 10² 10^1 1.75 0.25 0.50 0.75 1.25 1.50 2.00 1.00 invariant mass (GeV/c^2)

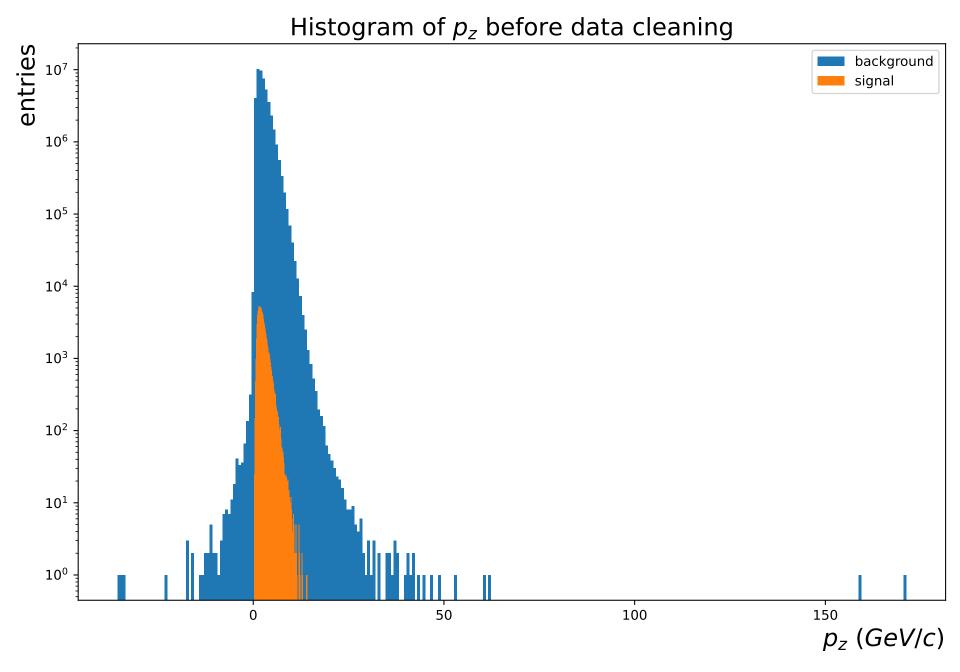
Histogram of p before data cleaning entries background 10⁷ signal 10⁶ -10⁵ 10^{4} 10³ 10² 10^1 10⁰ = 175 25 . 75 100 125 150 50 p(GeV/c)

Histogram of pT before data cleaning entries background 10⁷ signal 10⁶ -10⁵ 10^{4} 10³ 10² 10^1 10⁰ -25 30 5 15 20 35 10 pT (GeV/c)

Histogram of ϕ before data cleaning entries 105 d background signal 10⁴ -10³ **–**3 _ _2 -1 2 Ó 3 ϕ (rad) Histogram of p_x before data cleaning



Histogram of p_y before data cleaning entries background 10⁷ signal 10⁶ -10⁵ 10^{4} 10³ 10² 10^1 10⁰ p_y (GeV/c) 20 30 Ó -10 10



Histogram of rapidity before data cleaning entries background 10⁶ signal 10^{5} 10^{4} 10³ 10² 10¹ 10⁰ <u>-</u>2 0

2

3

rapidity

Histogram of x before data cleaning entries background signal 10⁵ -10³ -10¹ --1000 1000 2000 -5000 -4000 -3000 -2000 *x* (*cm*)

Histogram of y before data cleaning background signal 10⁵ -10³ -10¹ ò 2500 5000 -12500 -10000 **-7500** -5000 **-**2500

Histogram of z before data cleaning background signal 10⁵ -10³ -10¹ --10000 5000 -20000 -15000 -5000 z (cm)