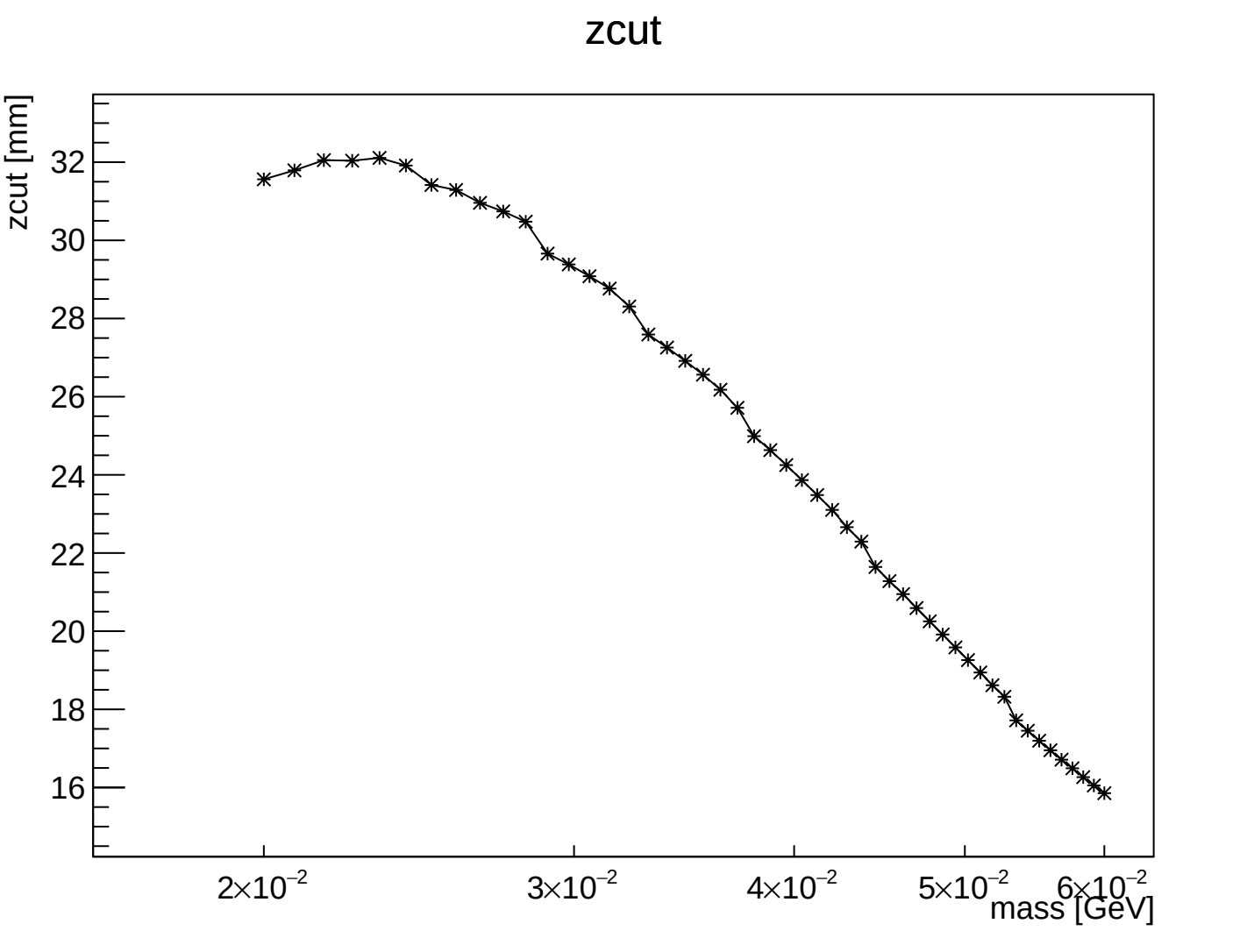
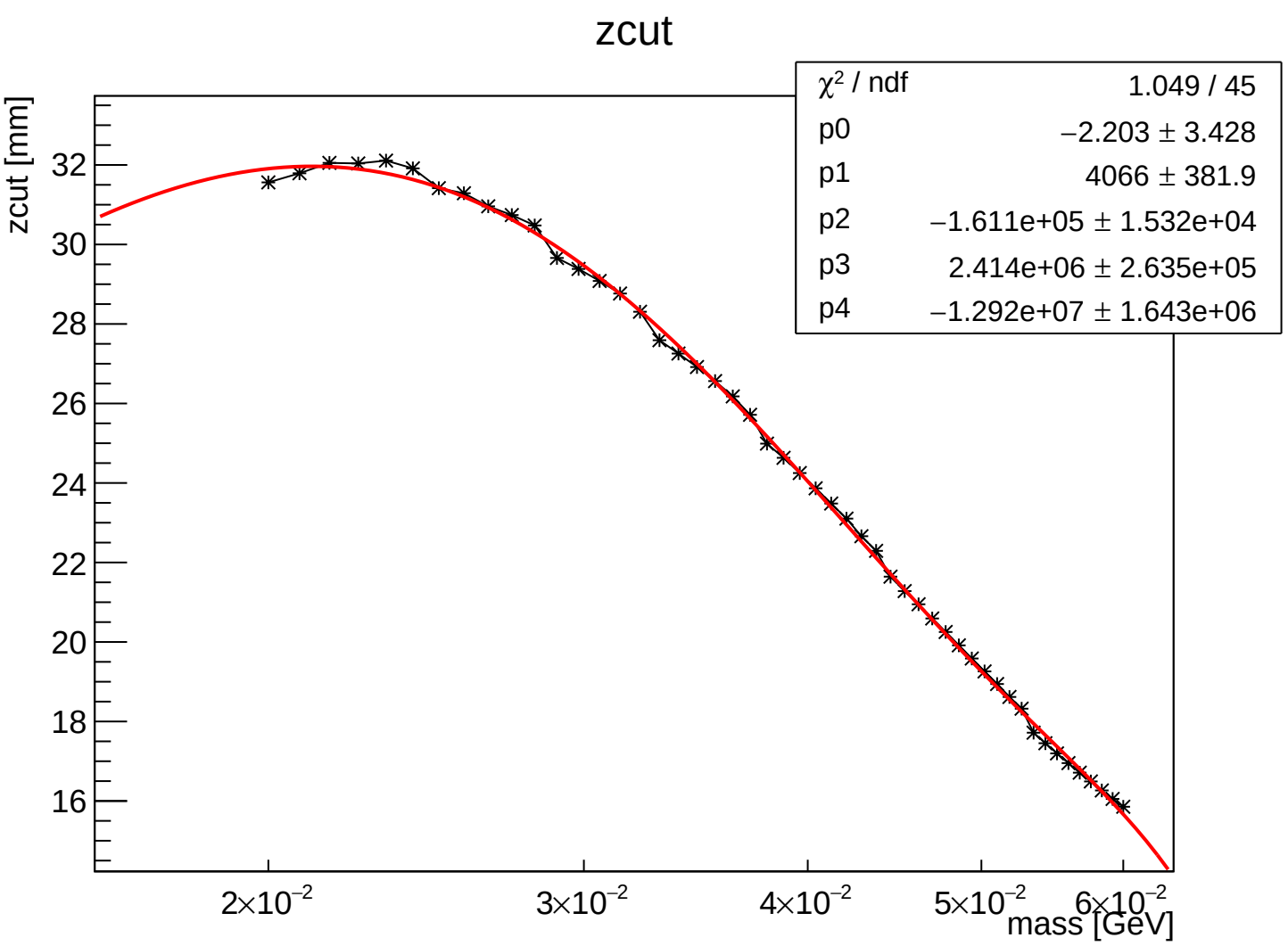
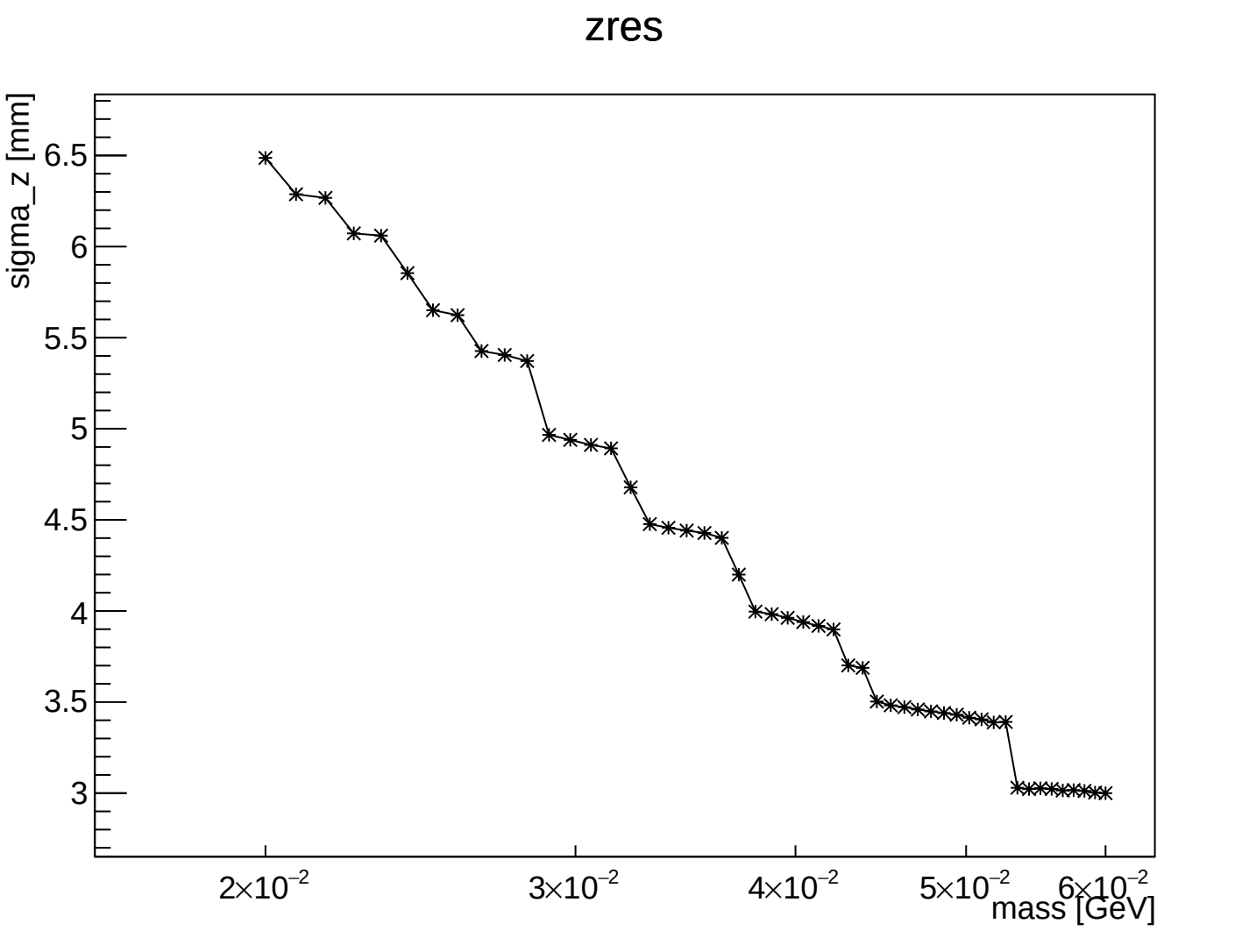
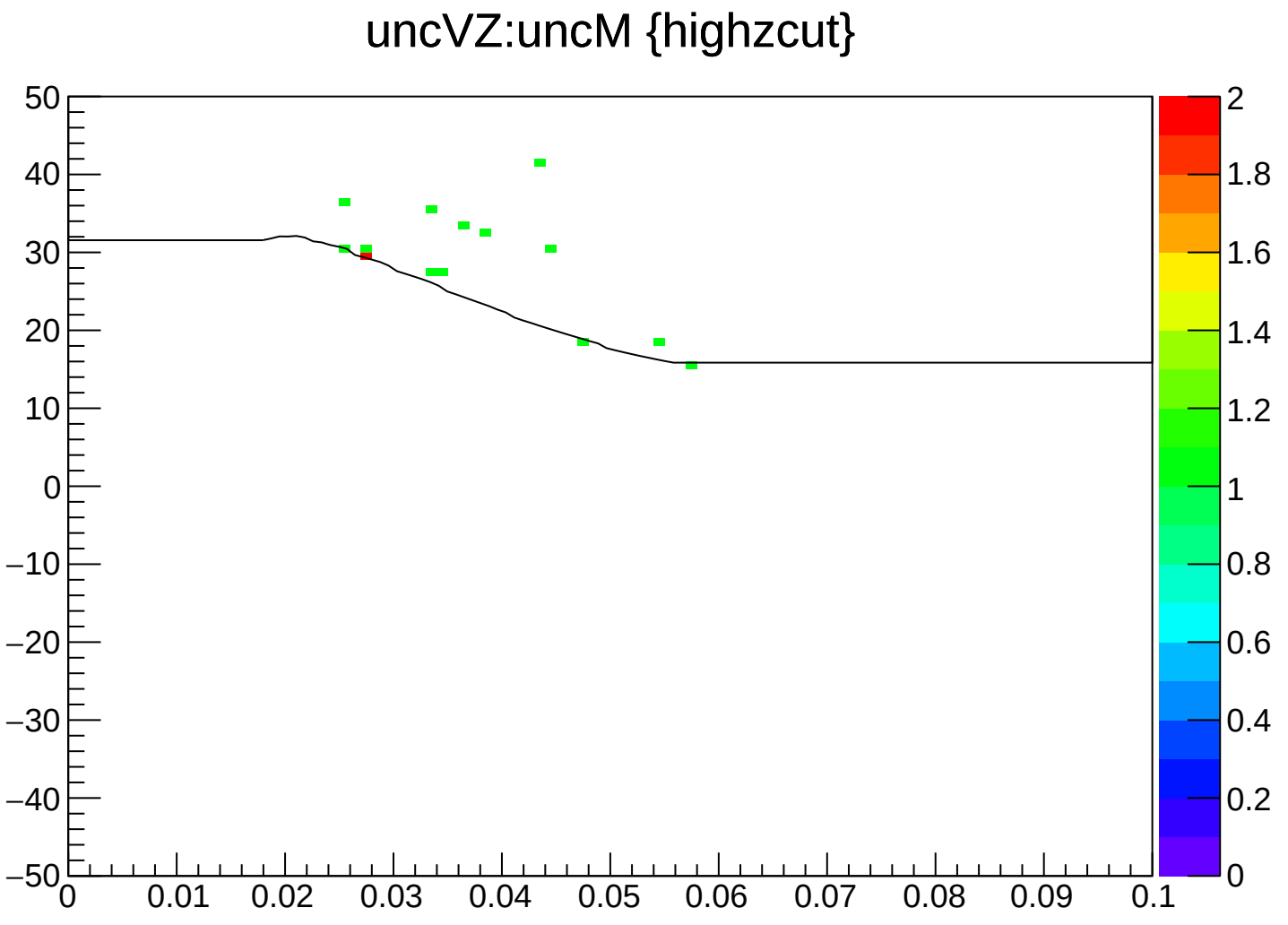
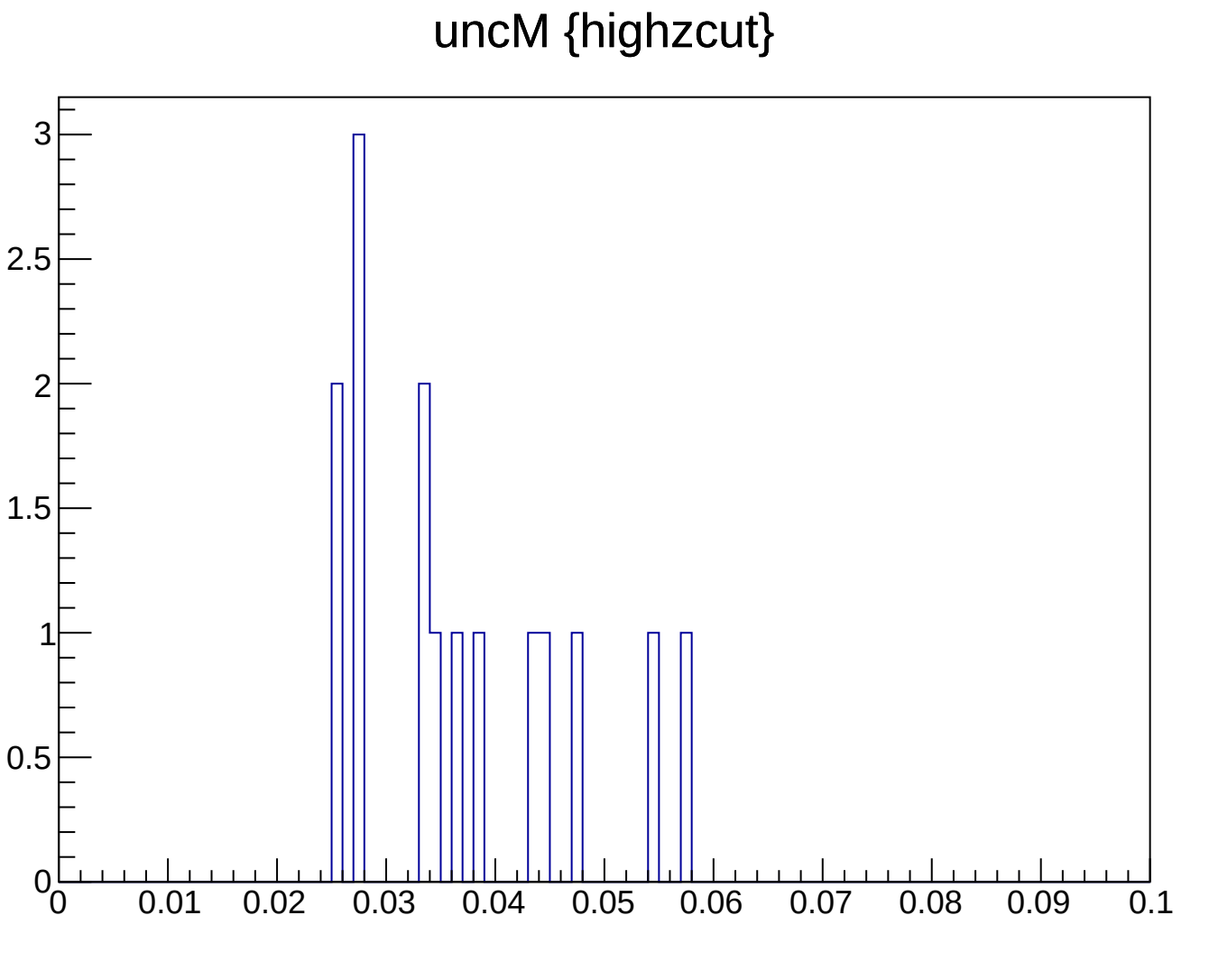
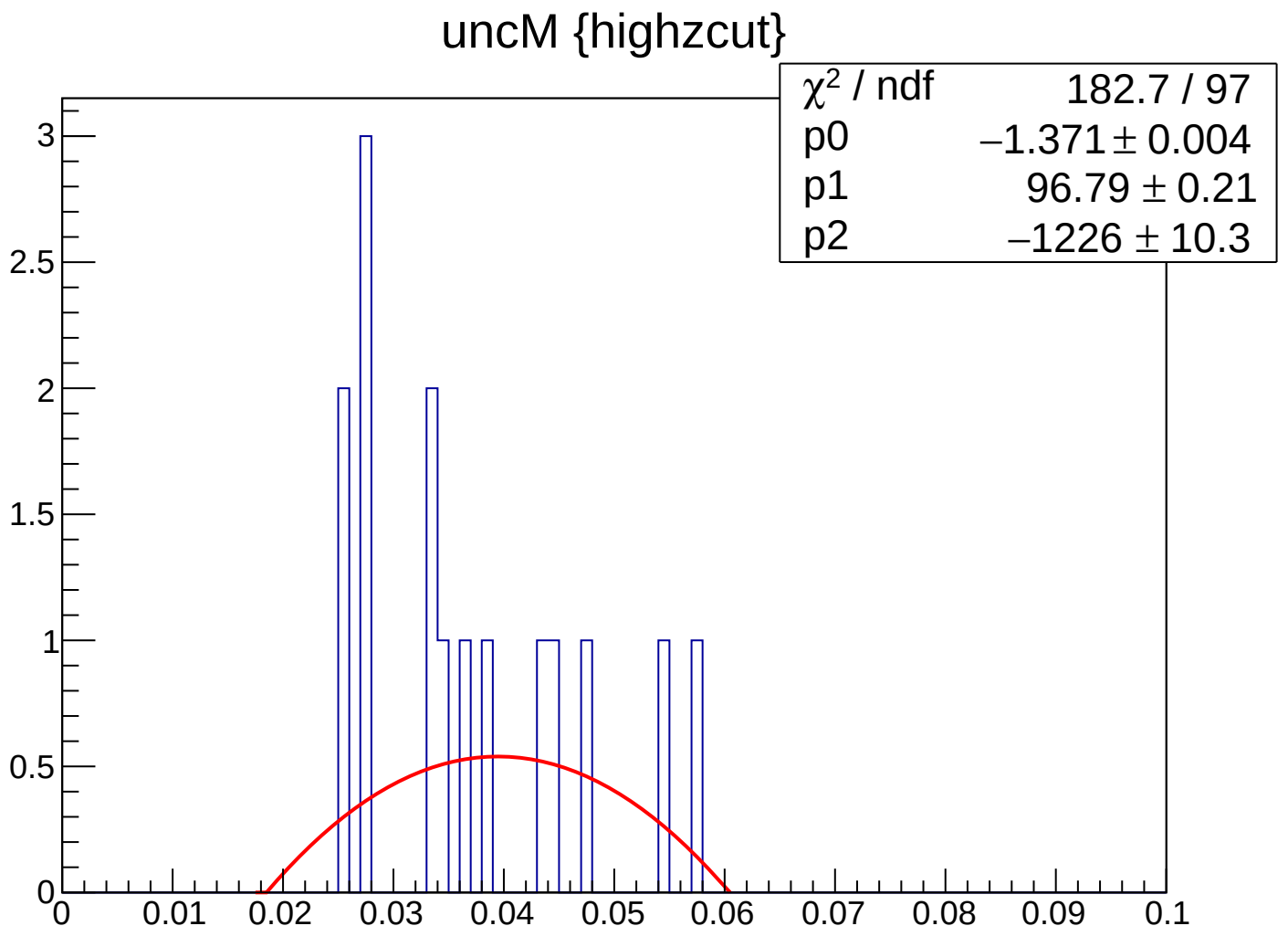

zcut
zcut [mm]
32
30
28
26
24
22
20
18
16
2×10⁻²
3×10⁻²
4×10⁻²
5×10⁻²
6×10⁻²
mass [GeV]

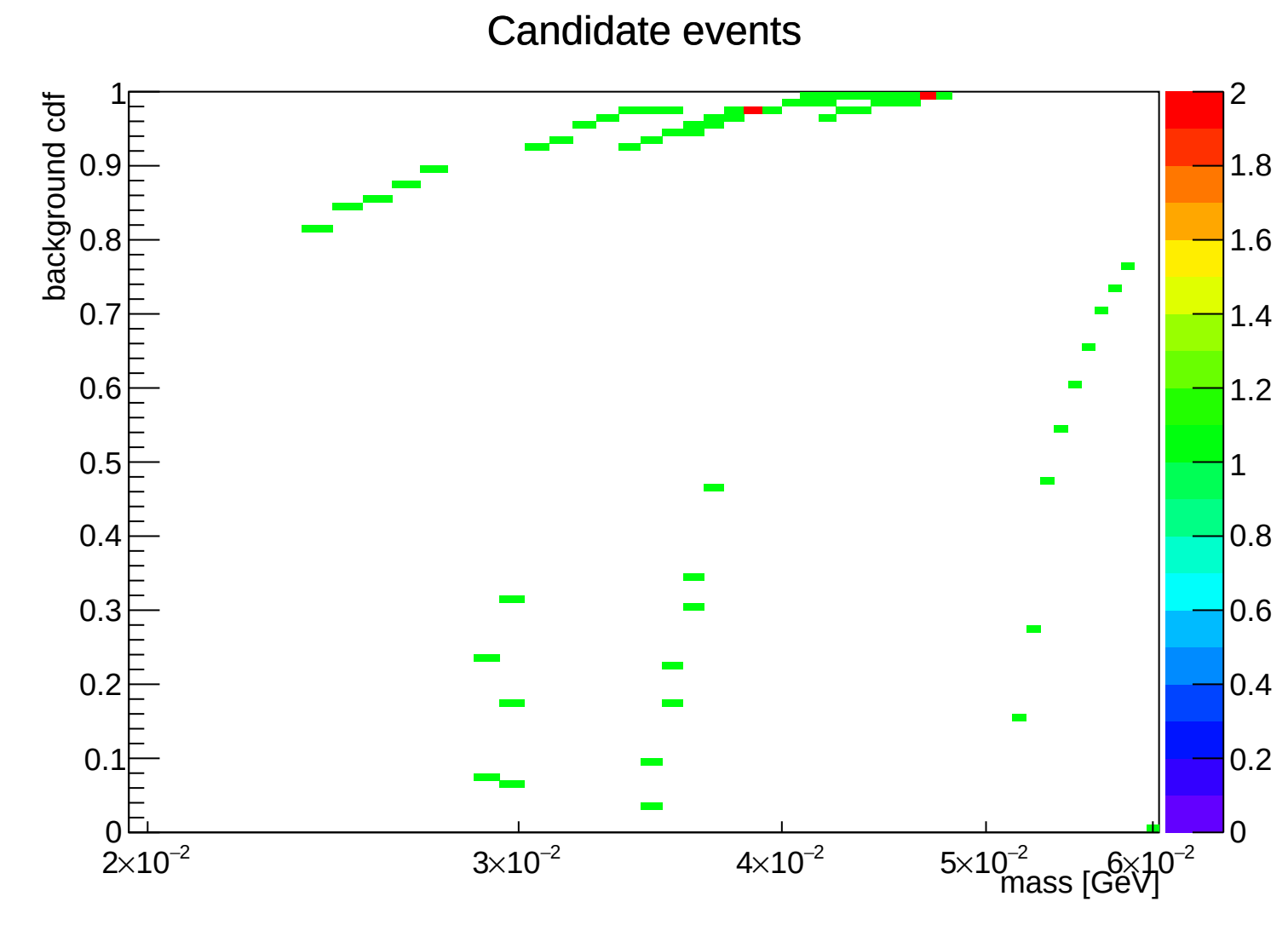

zcut
zcut [mm]
32
30
28
26
24
22
20
18
16
2×10⁻²
3×10⁻²
4×10⁻²
5×10⁻²
6×10⁻²
mass [GeV]
χ² / ndf 1.049 / 45
p0 −2.203 ± 3.428
p1 4066 ± 381.9
p2 −1.611e+05 ± 1.532e+04
p3 2.414e+06 ± 2.635e+05
p4 −1.292e+07 ± 1.643e+06

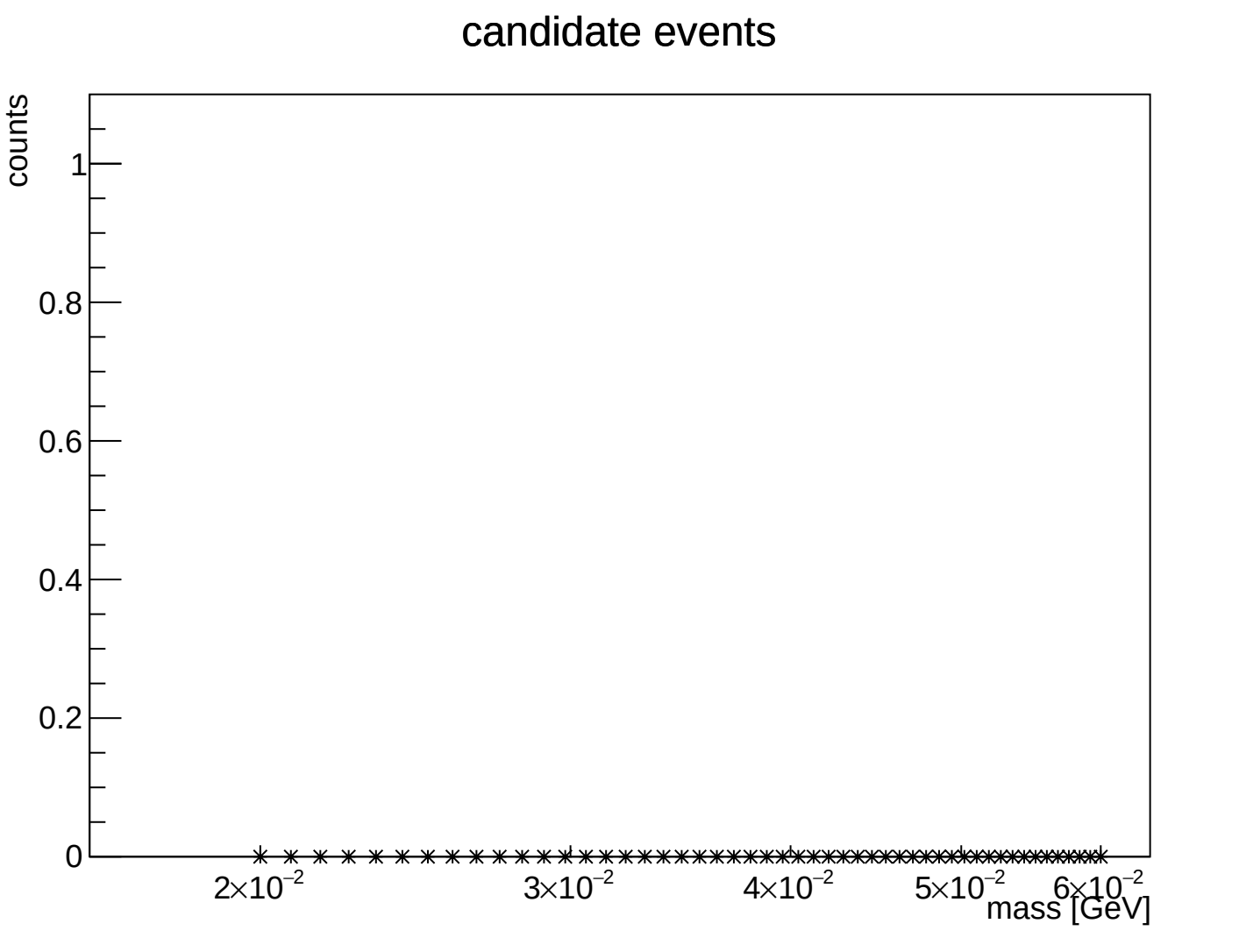

zres
sigma_z [mm]
6.5
6
5.5
5
4.5
4
3.5
3
2×10⁻²
3×10⁻²
4×10⁻²
5×10⁻²
6×10⁻²
mass [GeV]

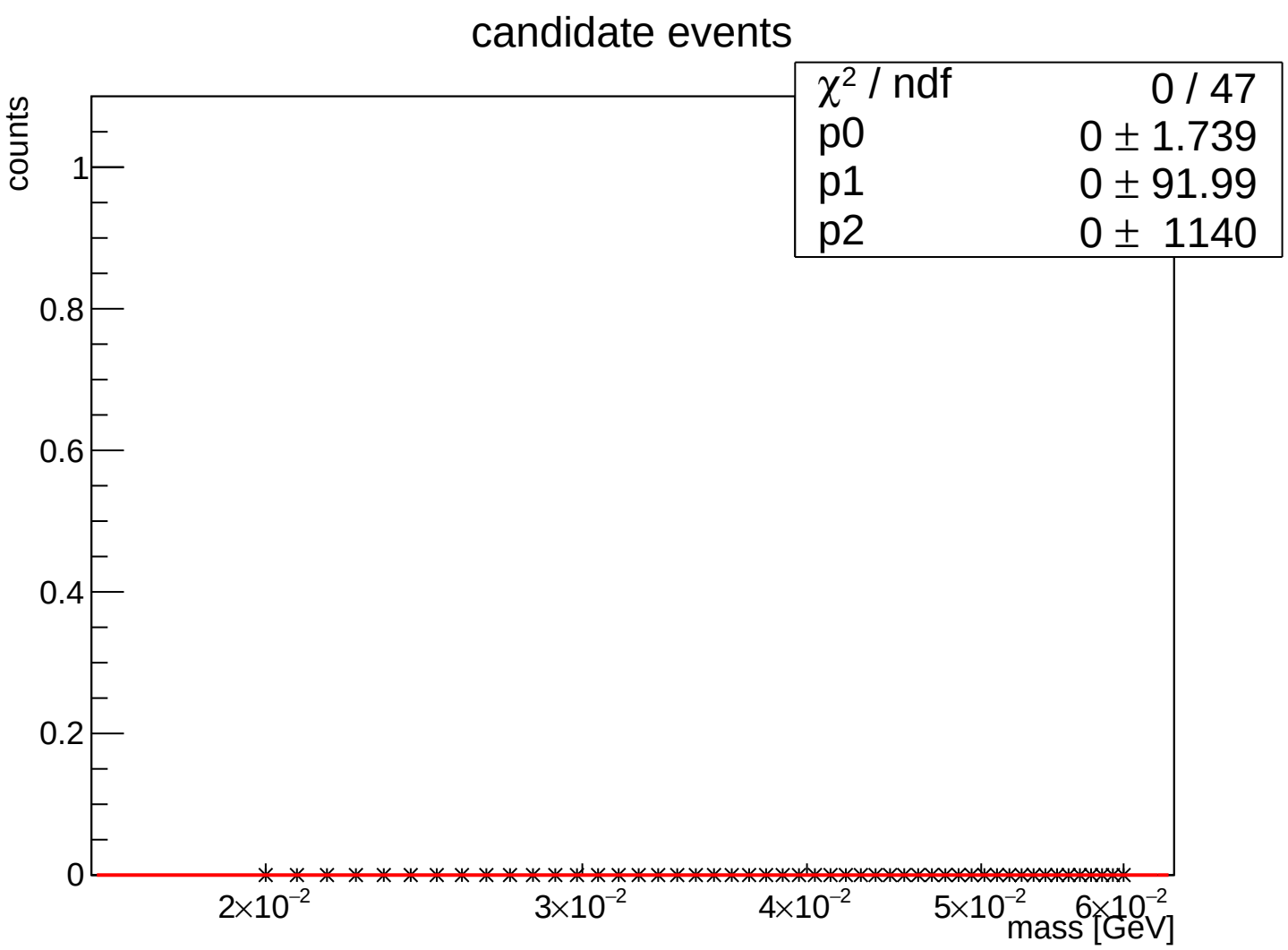

uncVZ:uncM {highzcut}
50
40
30
20
10
0
−10
−20
−30
−40
−50
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.1
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

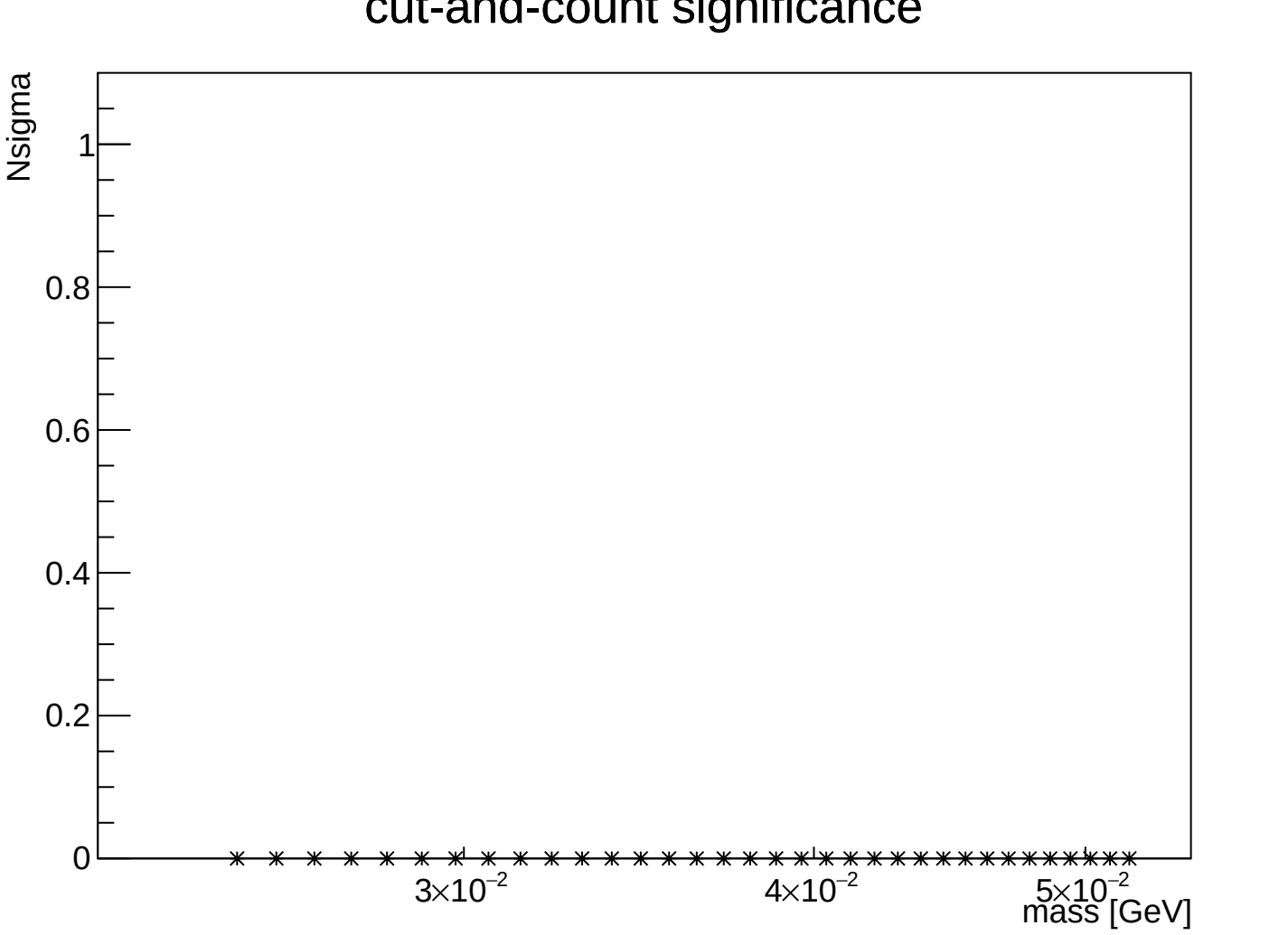

uncM {highzcut}
3
2.5
2
1.5
1
0.5
0
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.1

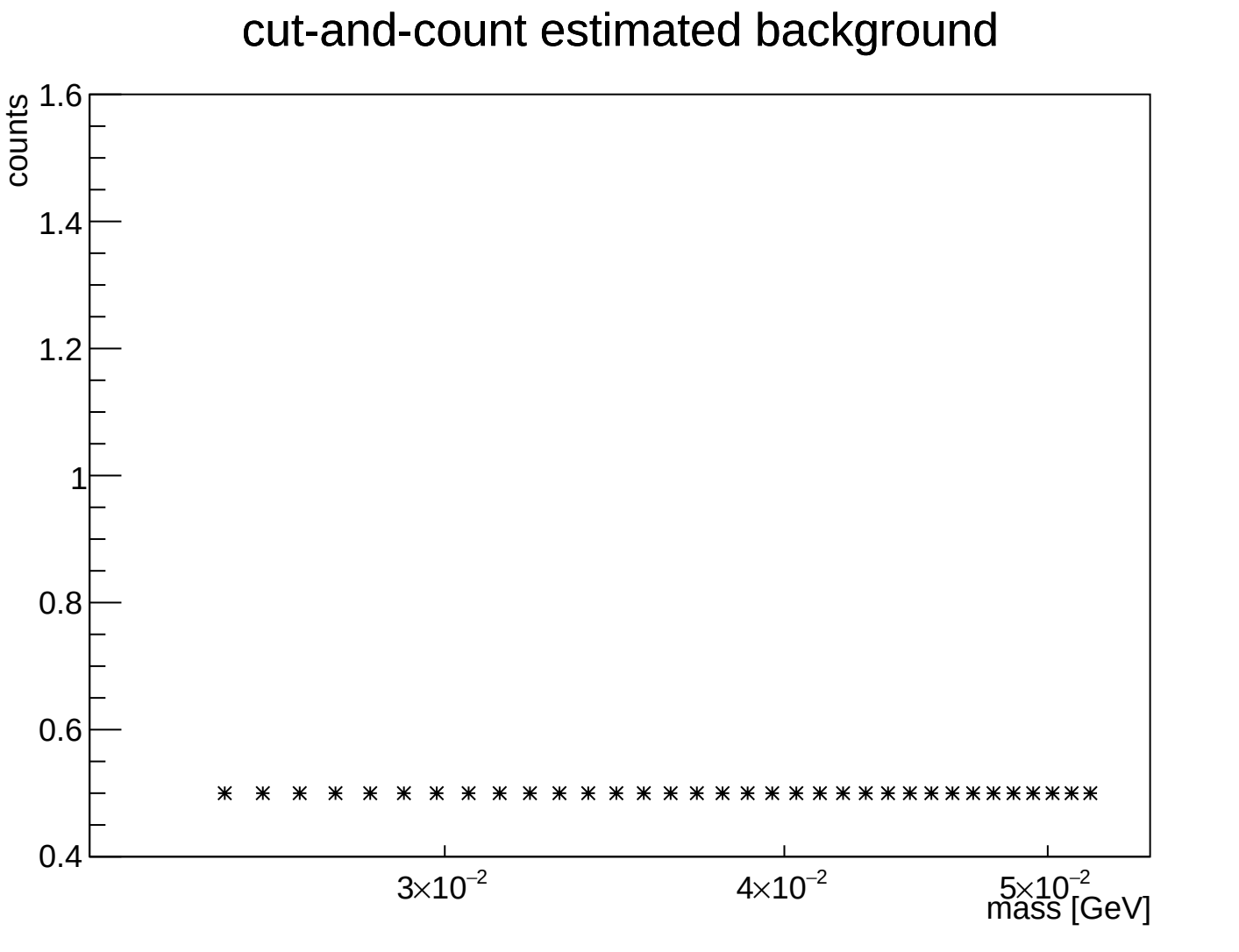

uncM {highzcut}
χ² / ndf 182.7 / 97
p0 −1.371 ± 0.004
p1 96.79 ± 0.21
p2 −1226 ± 10.3
0
0.5
1
1.5
2
2.5
3
0
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
0.09
0.1

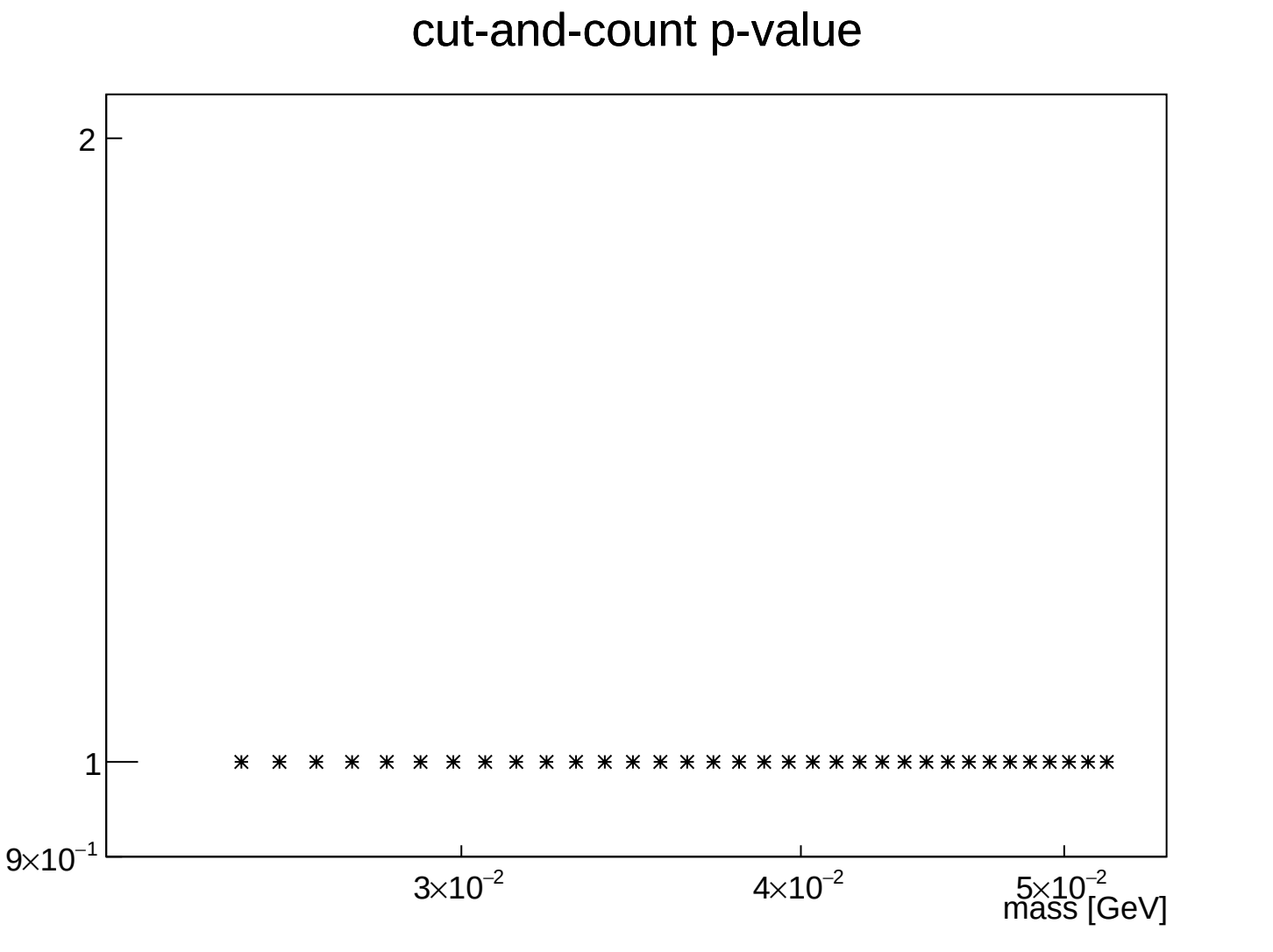

Candidate events
background cdf
mass [GeV]
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
2×10⁻²
3×10⁻²
4×10⁻²
5×10⁻²
6×10⁻²
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

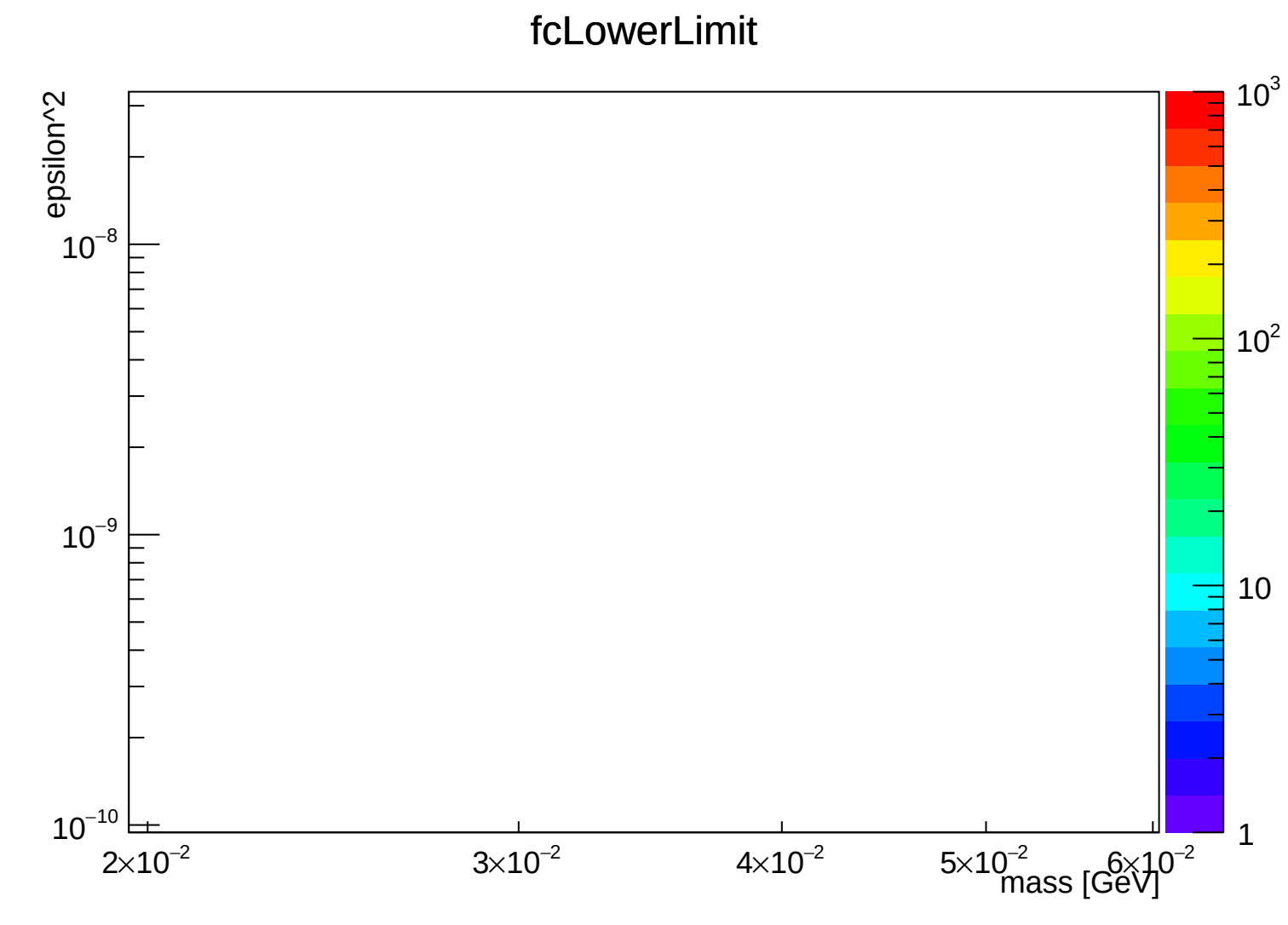

candidate events
counts
1
0.8
0.6
0.4
0.2
0
2×10⁻²
3×10⁻²
4×10⁻²
5×10⁻²
6×10⁻²
mass [GeV]

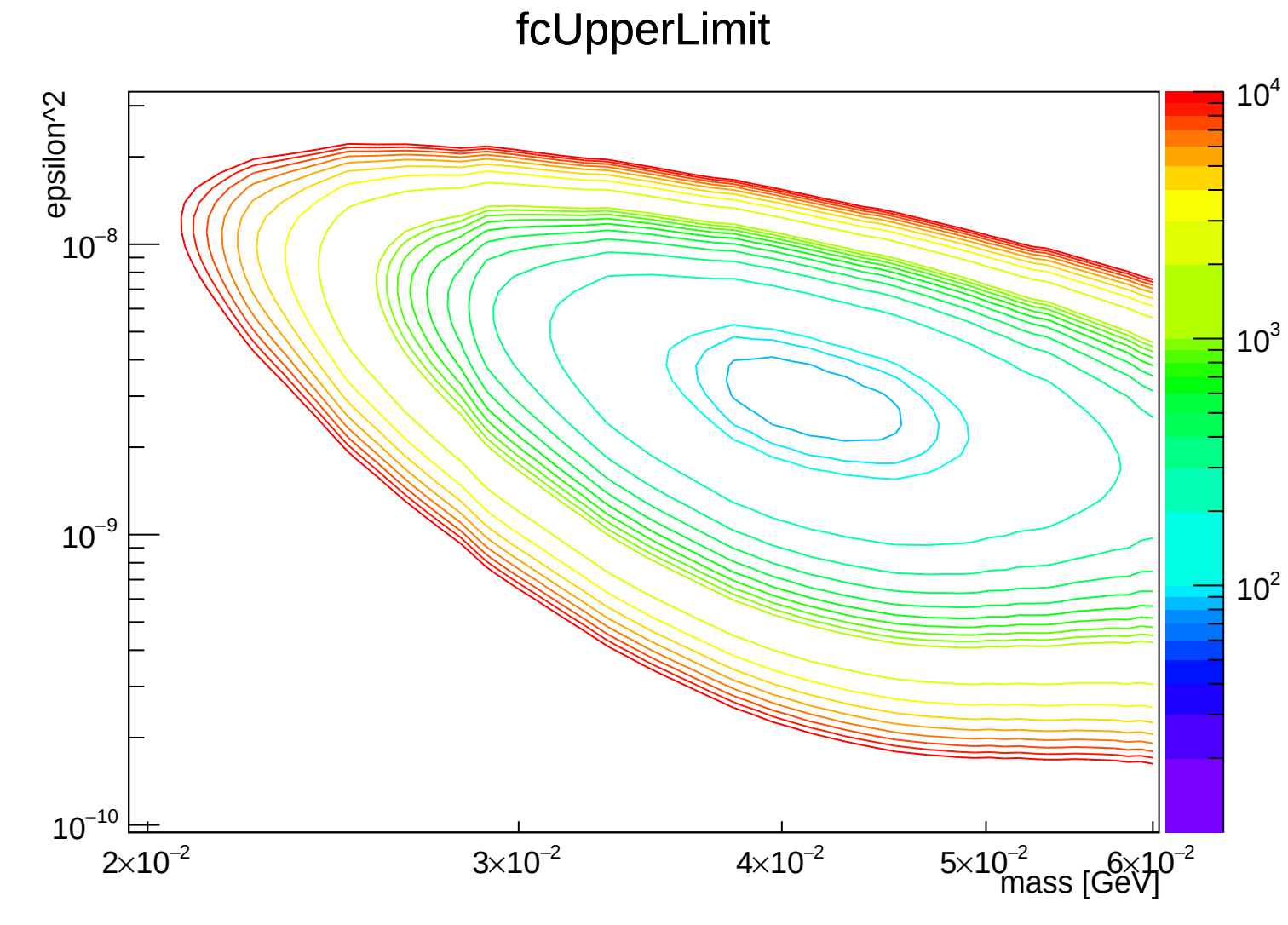

candidate events
χ² / ndf 0 / 47
p0 0 ± 1.739
p1 0 ± 91.99
p2 0 ± 1140
counts
1
0.8
0.6
0.4
0.2
0
2×10⁻²
3×10⁻²
4×10⁻²
5×10⁻²
6×10⁻²
mass [GeV]

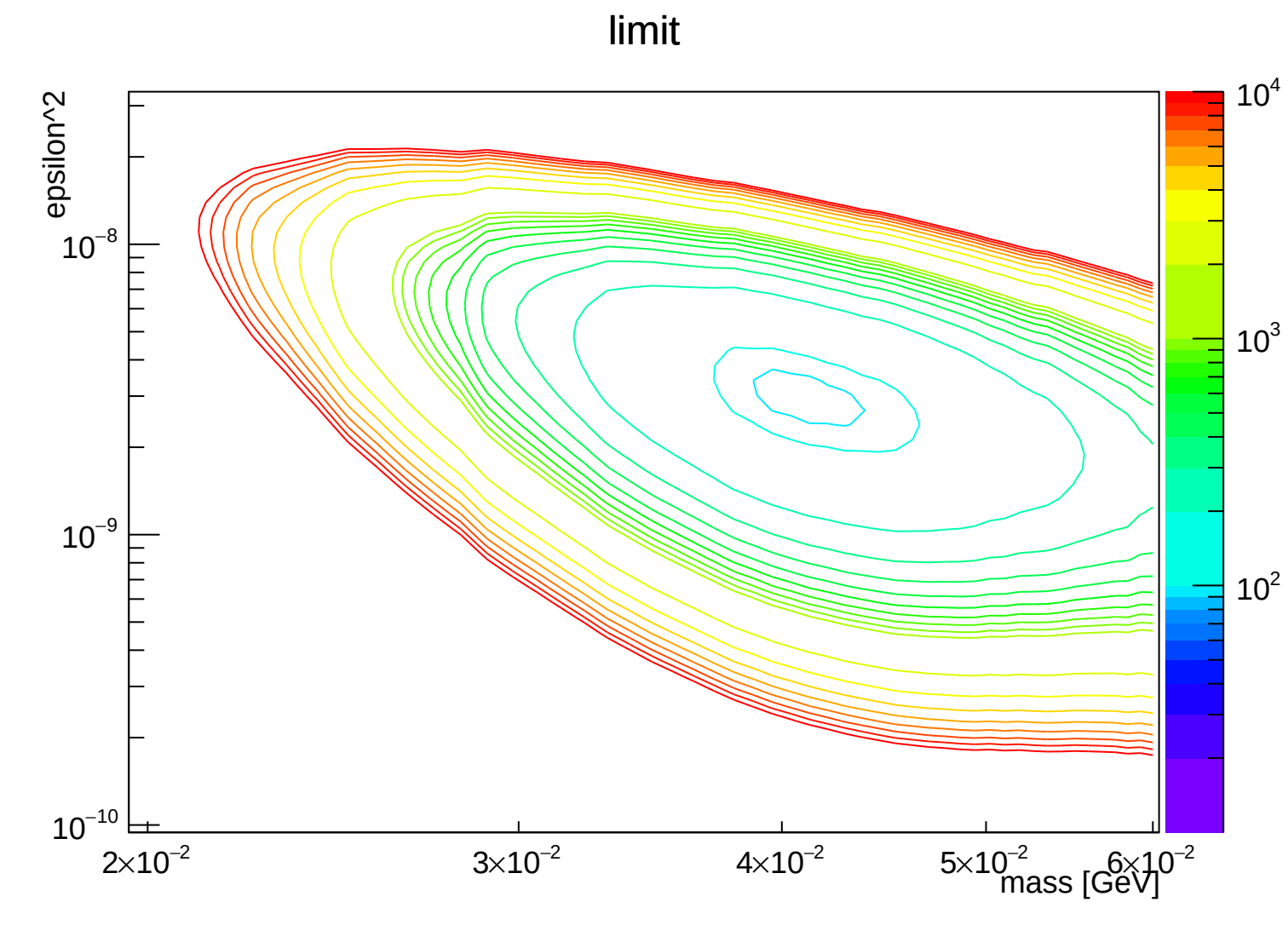

cut-and-count significance
Nsigma
1
0.8
0.6
0.4
0.2
0
3×10^−2
4×10^−2
5×10^−2
mass [GeV]

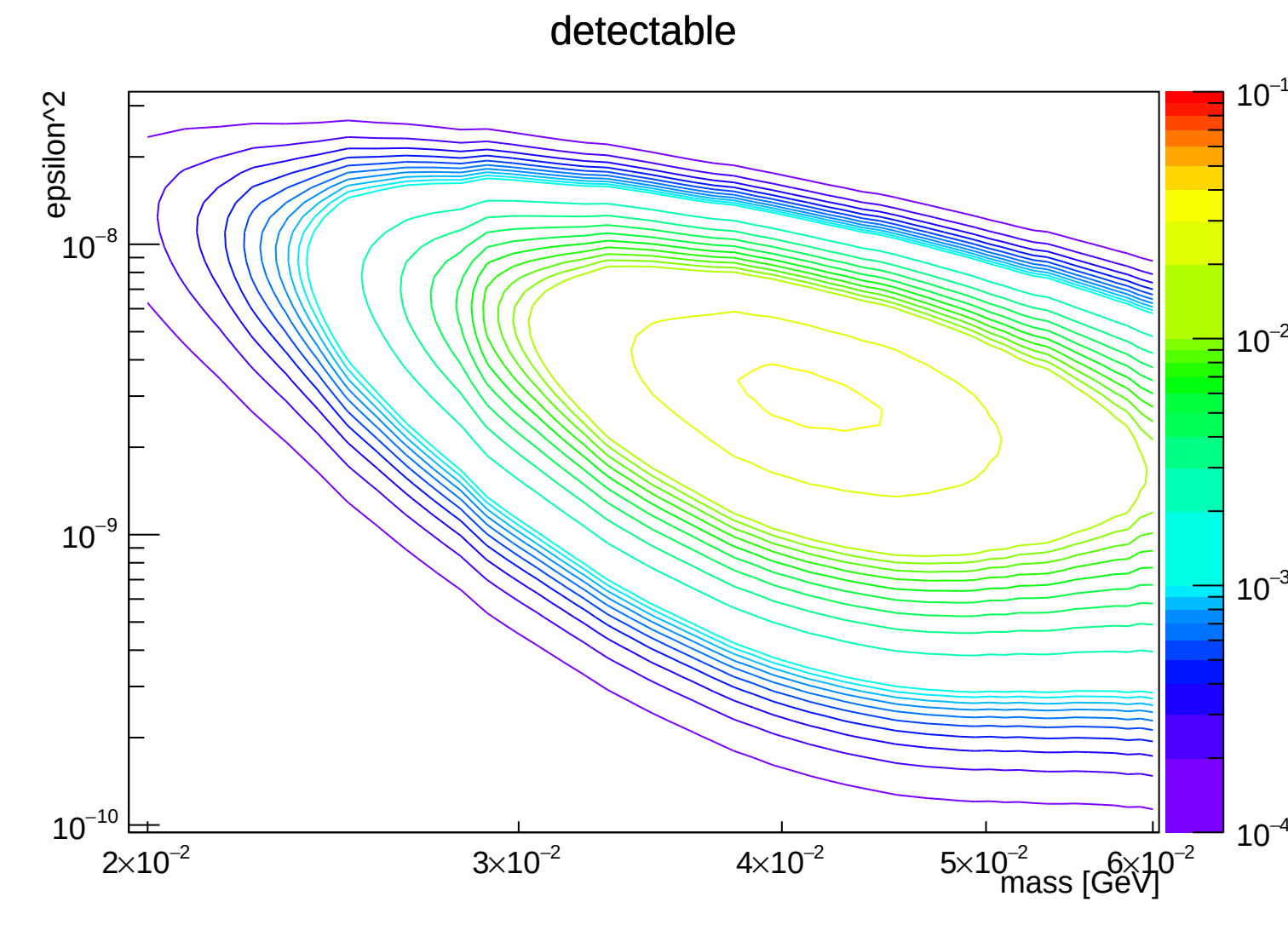

cut-and-count estimated background
counts
1.6
1.4
1.2
1
0.8
0.6
0.4
3×10⁻²
4×10⁻²
5×10⁻²
mass [GeV]

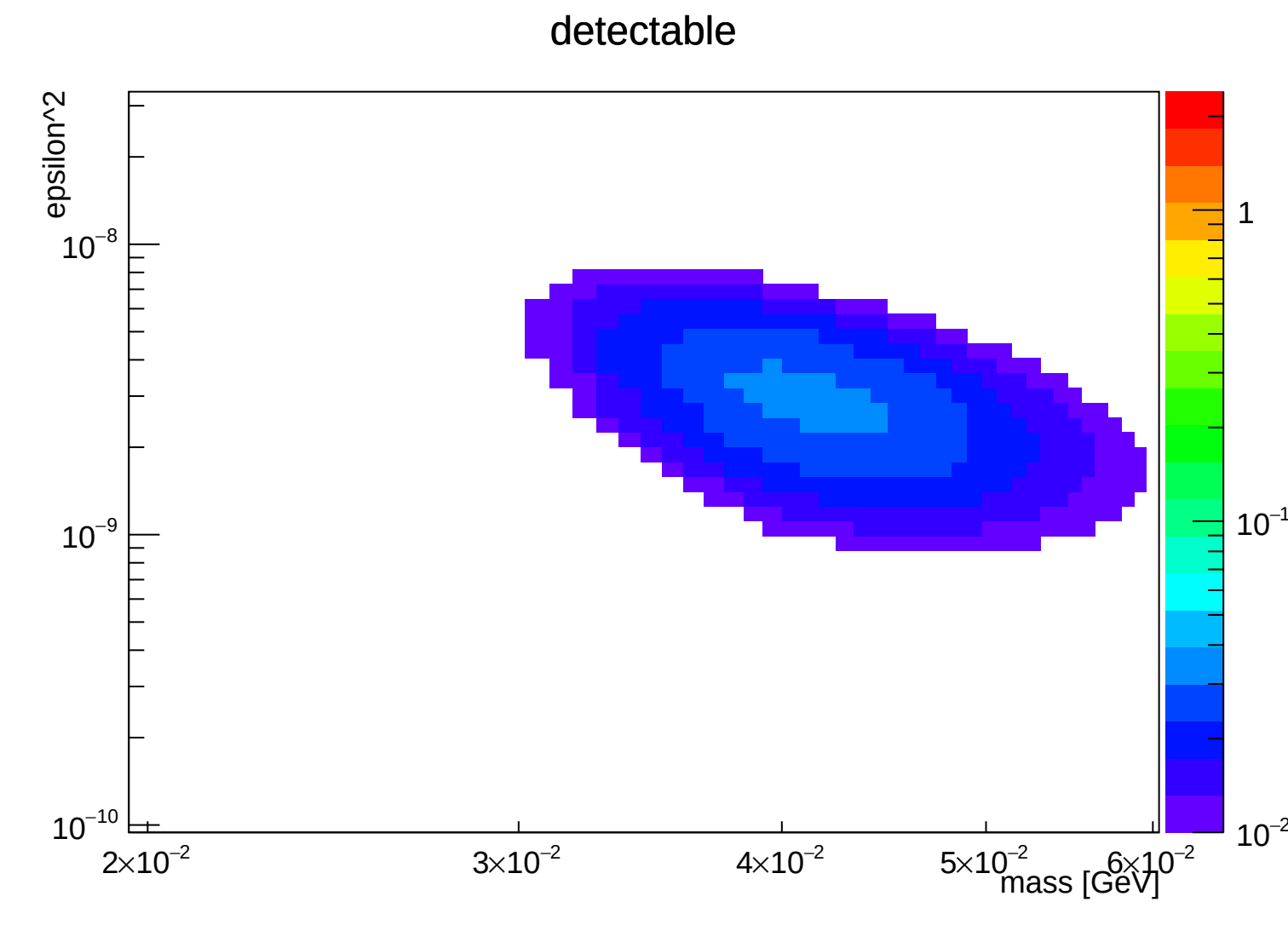

cut-and-count p-value
2
1
9×10^−1
3×10^−2
4×10^−2
5×10^−2
mass [GeV]

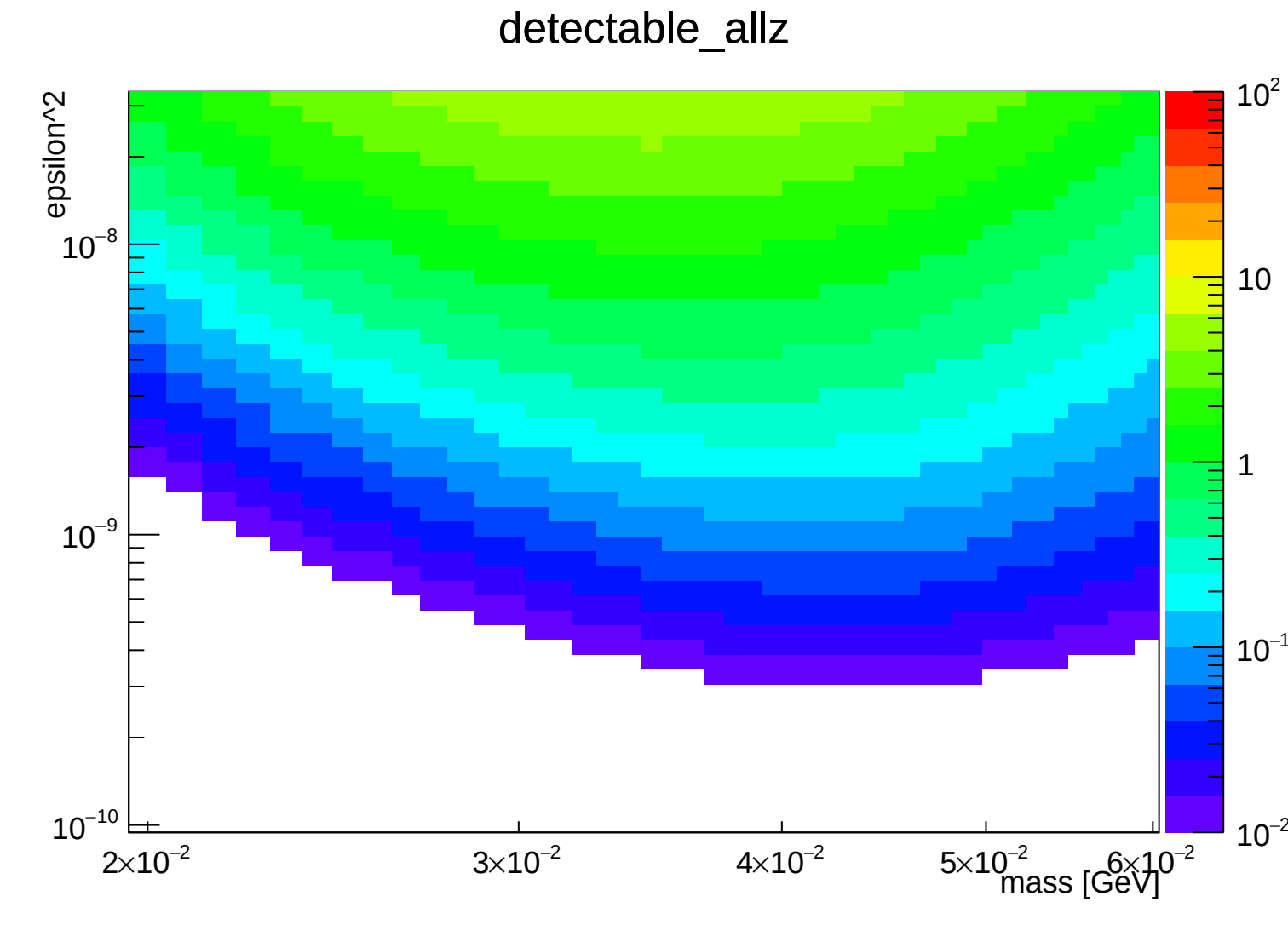

fcLowerLimit
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]
10^{3}
10^{2}
10
1

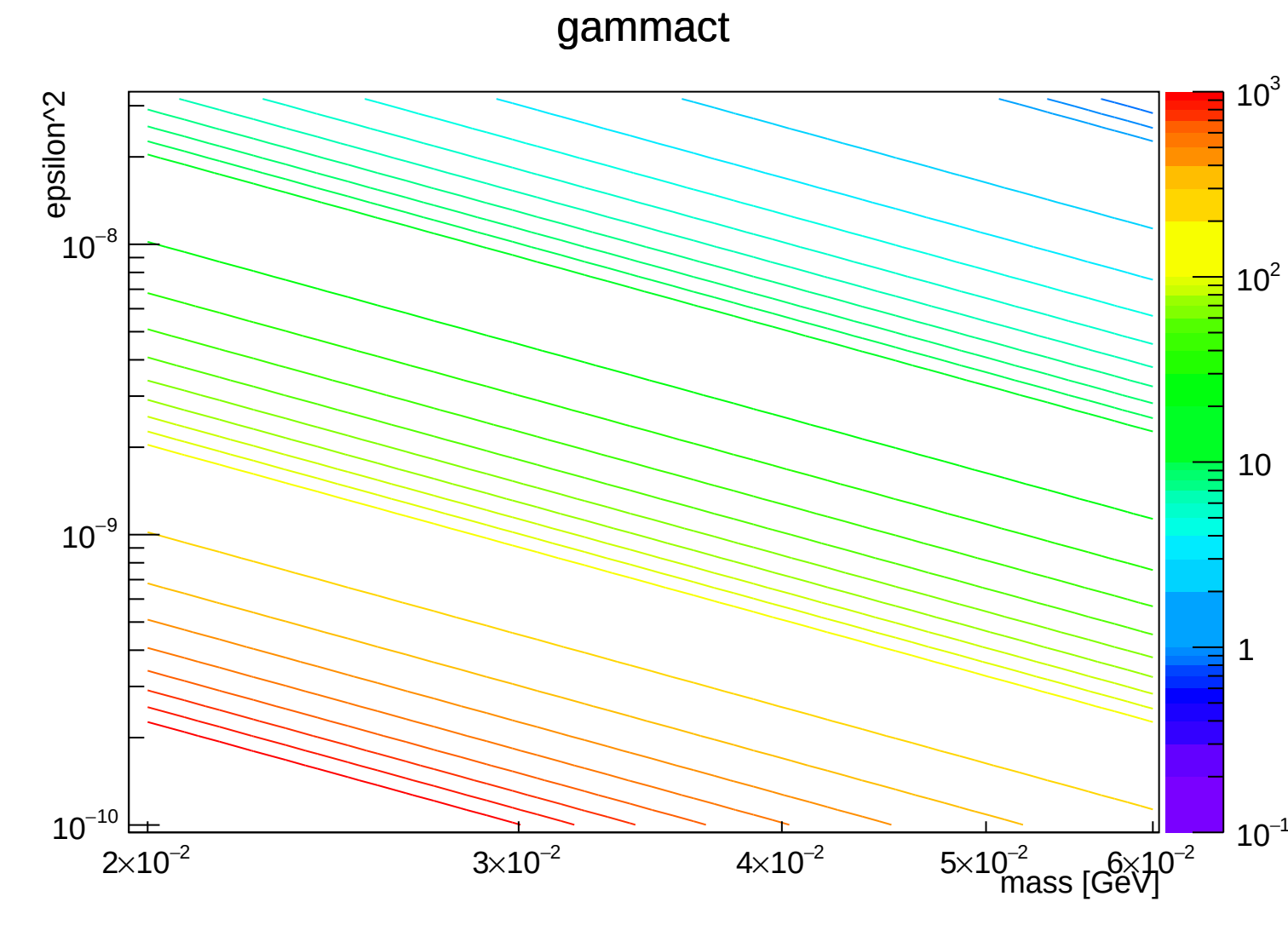

fcUpperLimit
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]
10^{4}
10^{3}
10^{2}

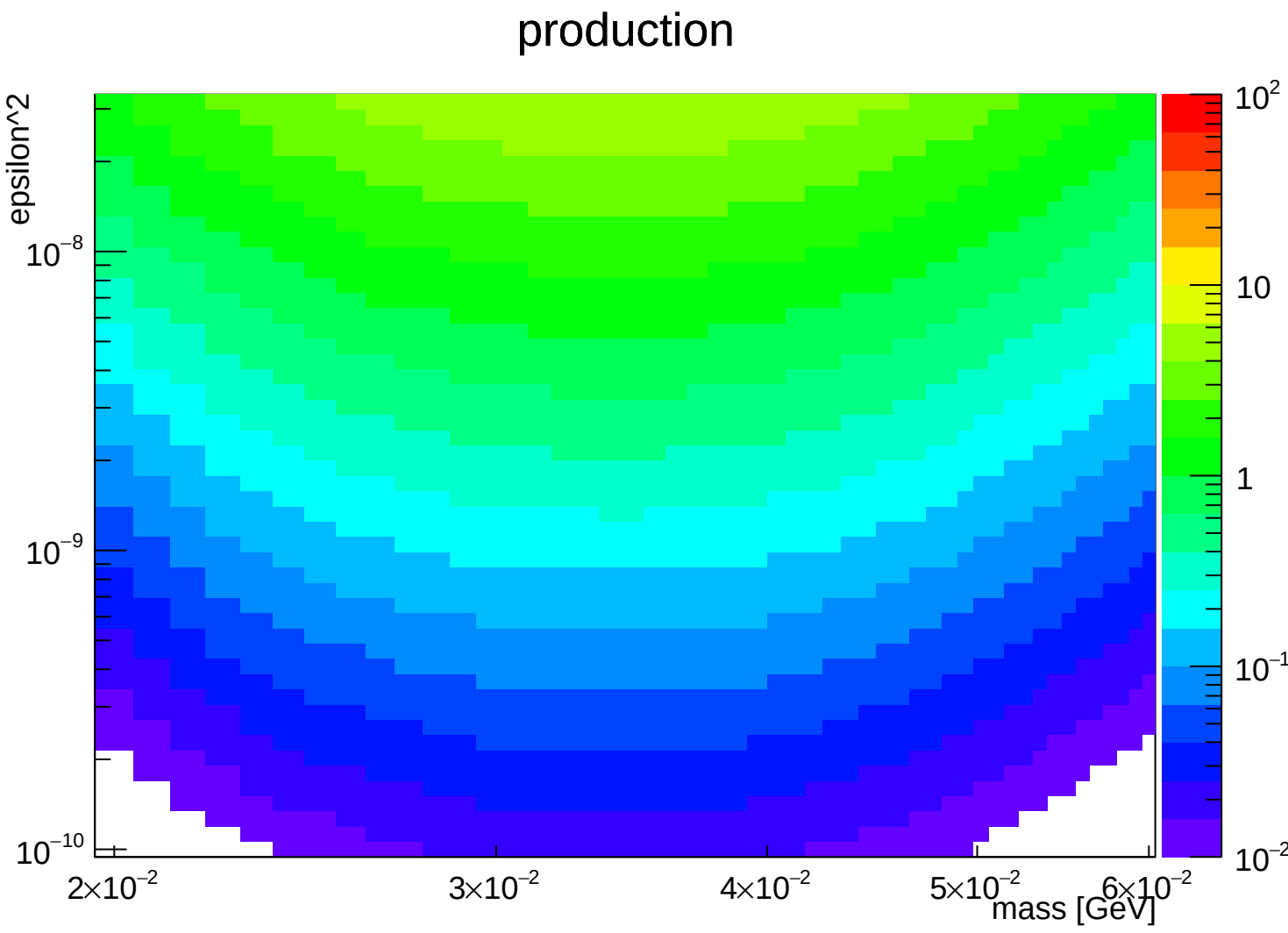

limit
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]
10^{4}
10^{3}
10^{2}

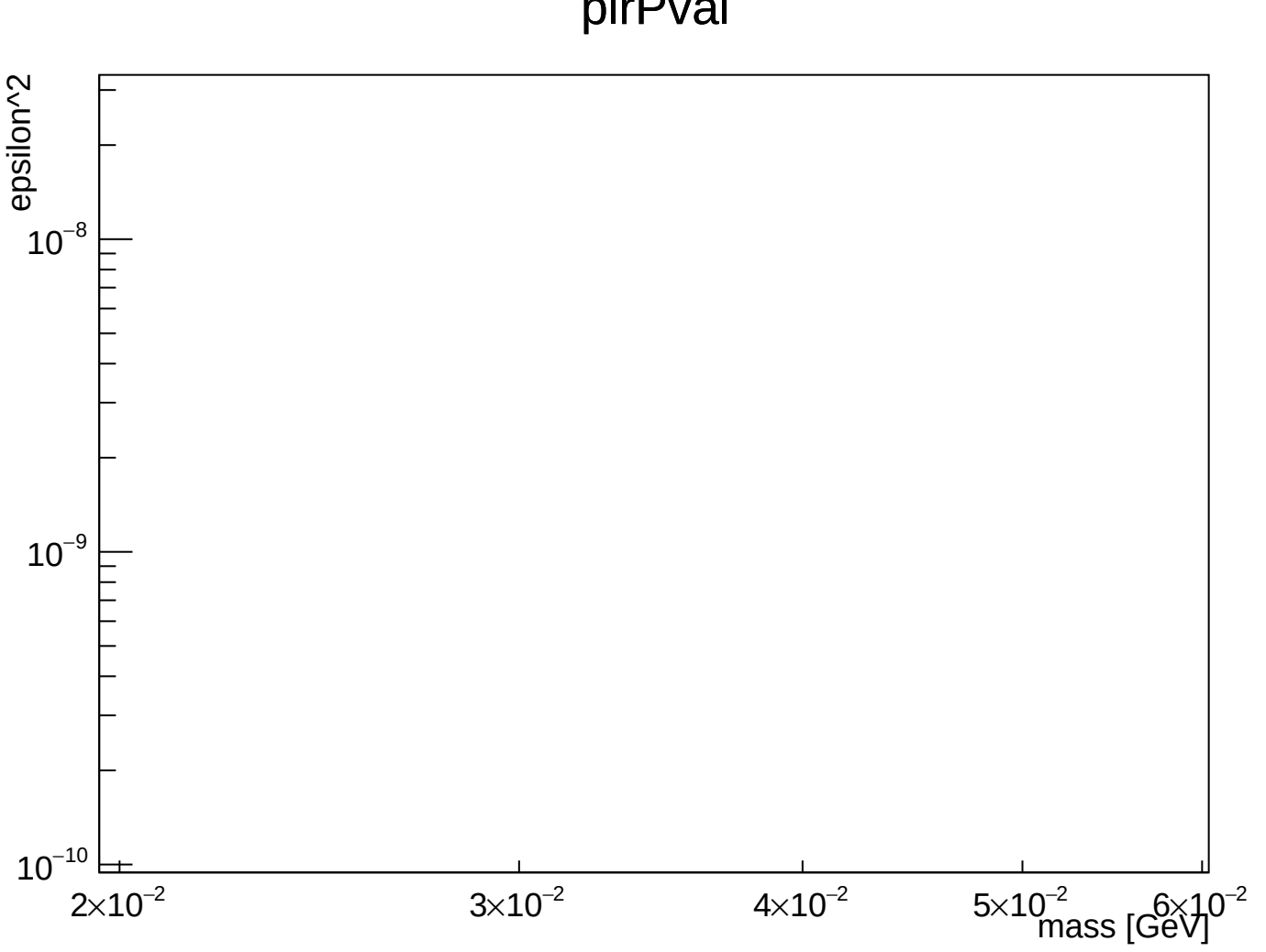

detectable
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]
10^{-1}
10^{-2}
10^{-3}
10^{-4}

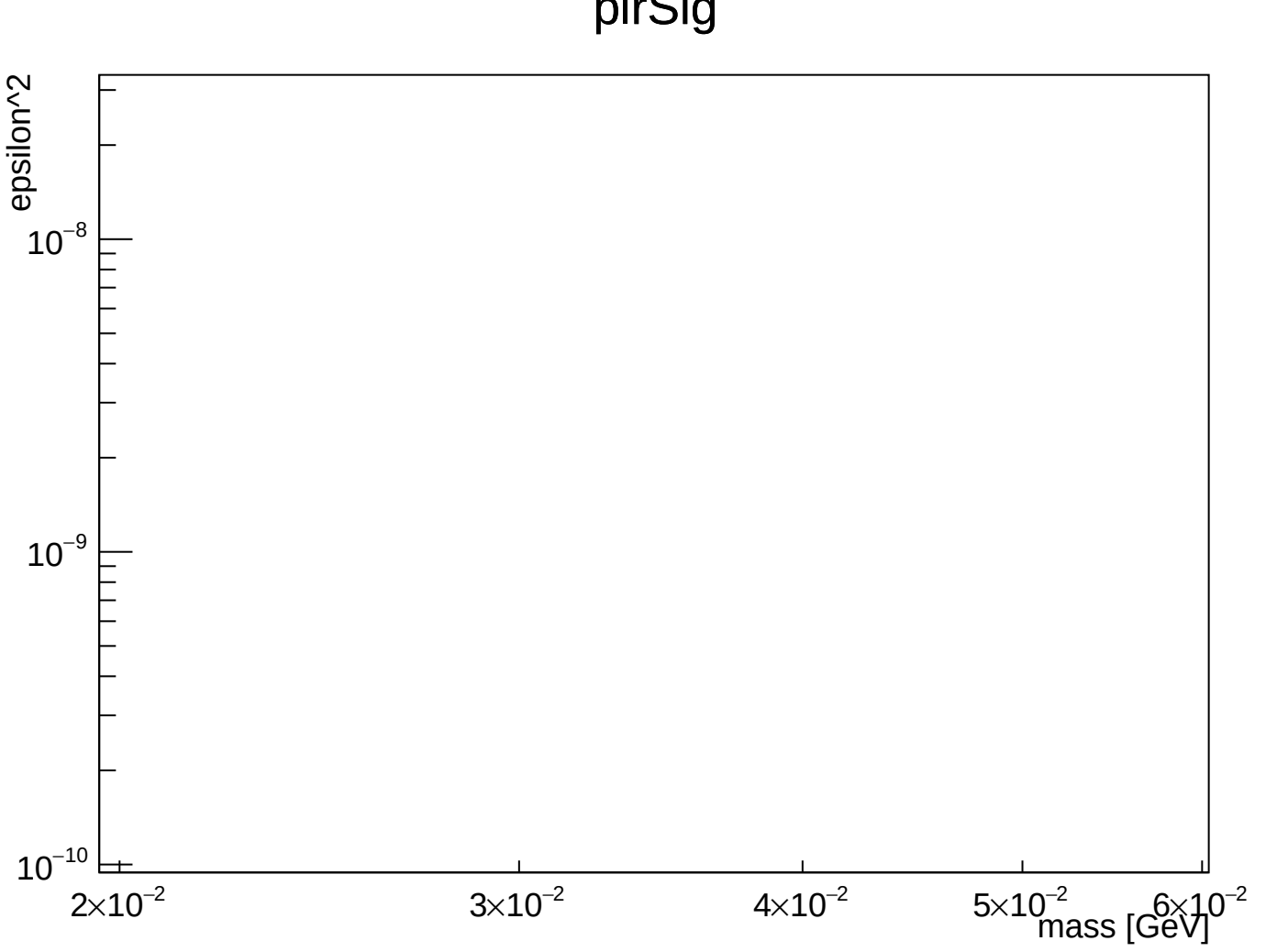

detectable
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]
1
10^{-1}
10^{-2}

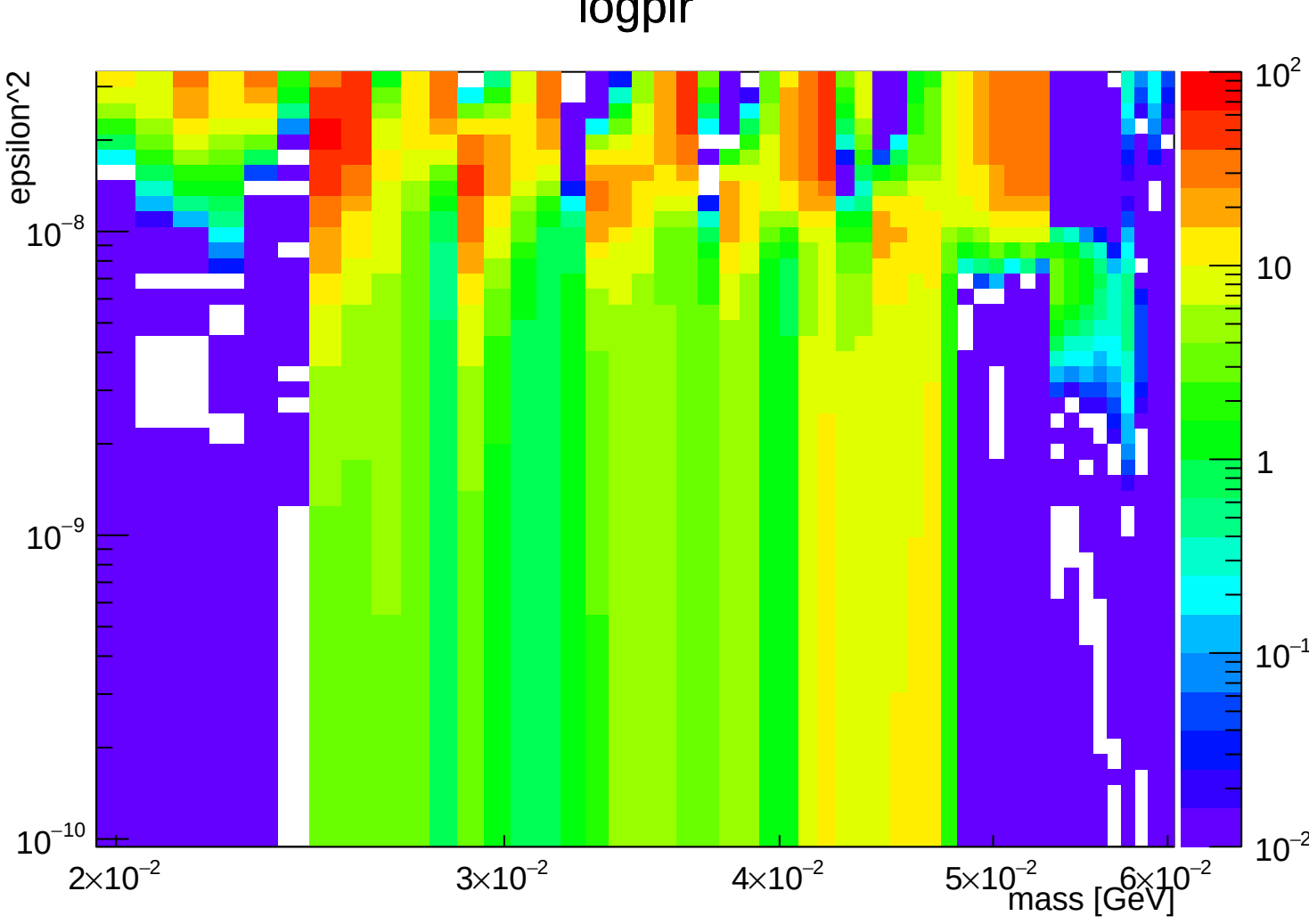

detectable_allz
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]
10^{2}
10
1
10^{-1}
10^{-2}


gammact
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]
10^{3}
10^{2}
10
1
10^{-1}


production
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]
10^{2}
10
1
10^{-1}
10^{-2}


plrPval
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]


plrSig
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]


logplr
epsilon^2
10^{-8}
10^{-9}
10^{-10}
2×10^{-2}
3×10^{-2}
4×10^{-2}
5×10^{-2}
6×10^{-2}
mass [GeV]
10^{2}
10
1
10^{-1}
10^{-2}