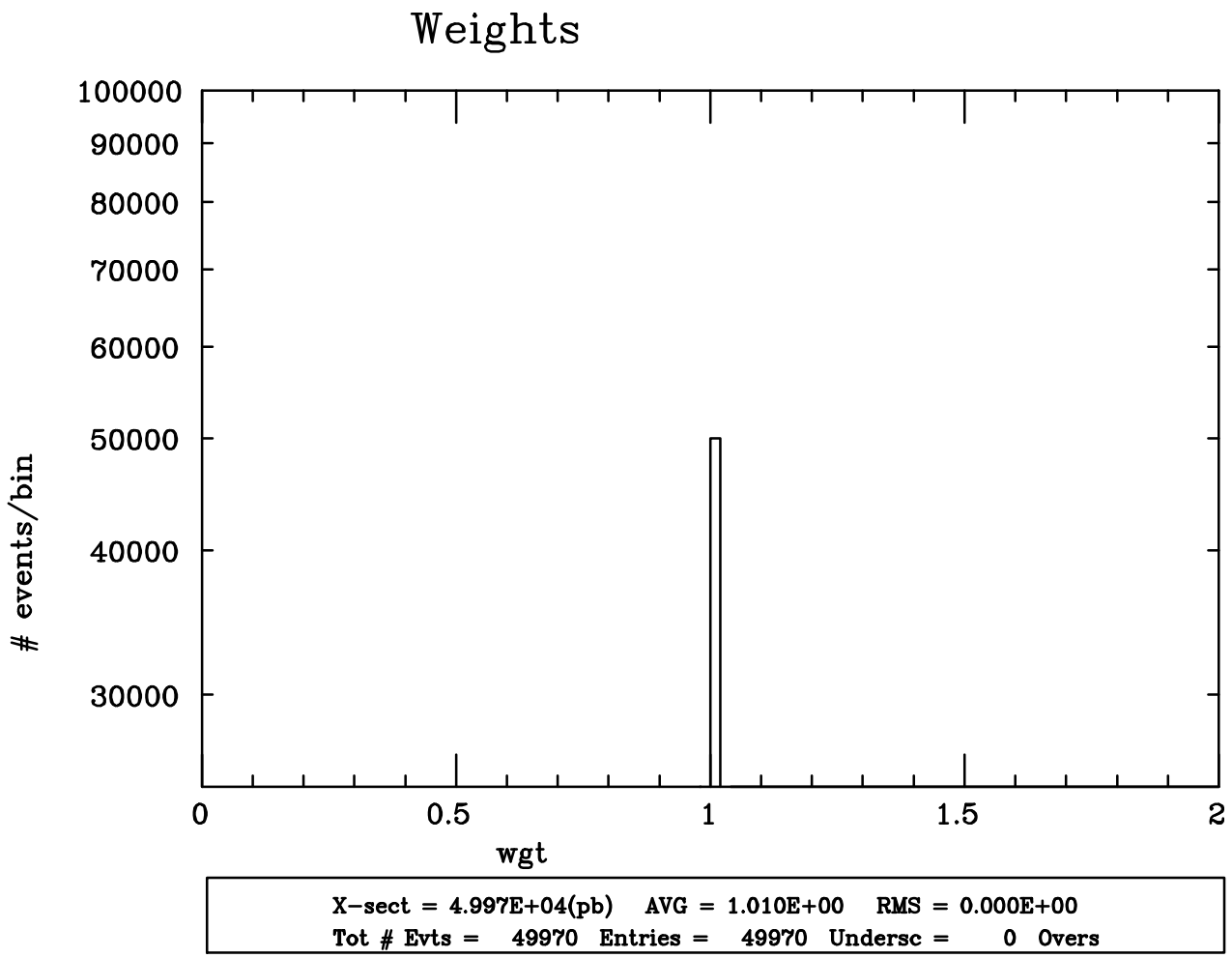
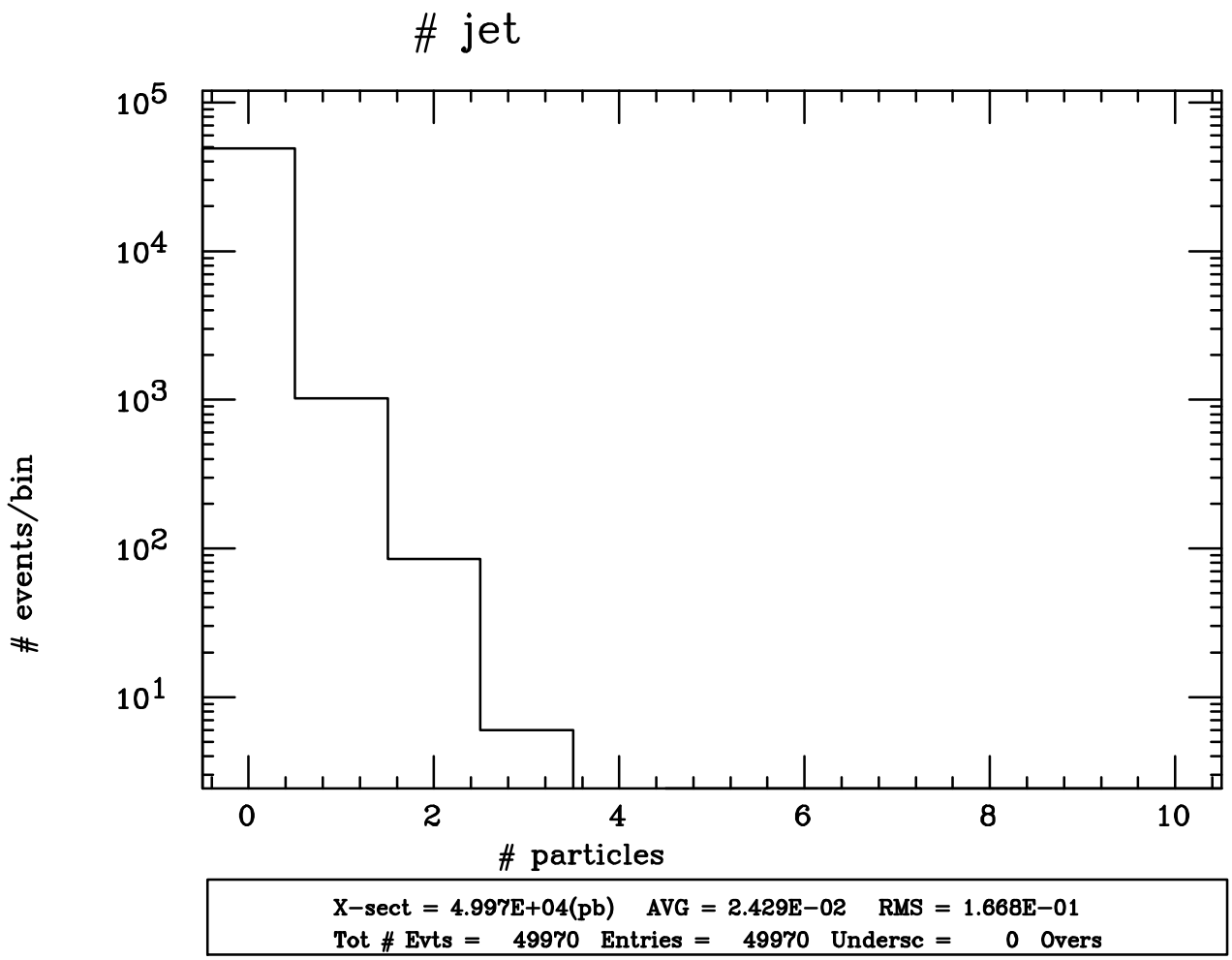
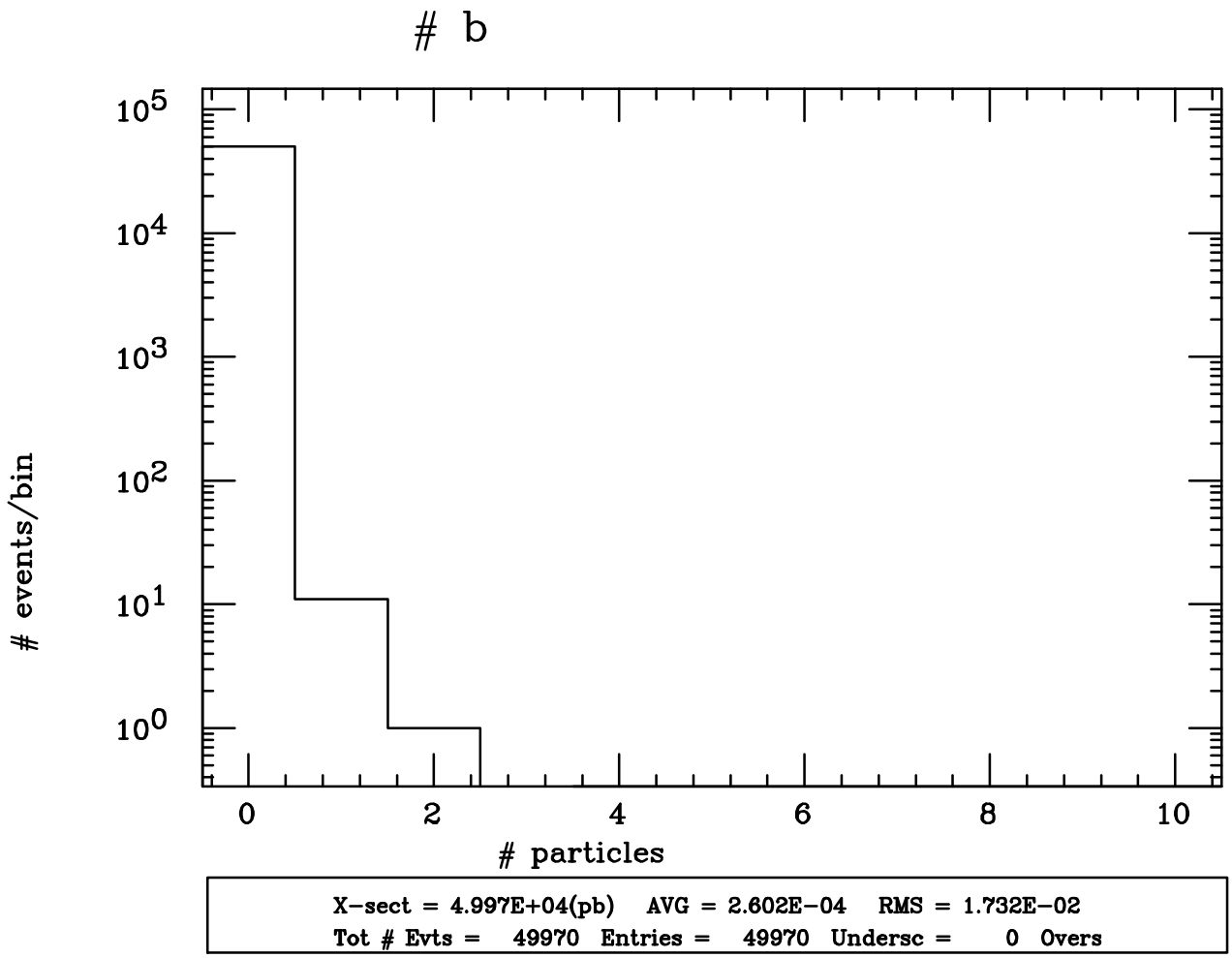
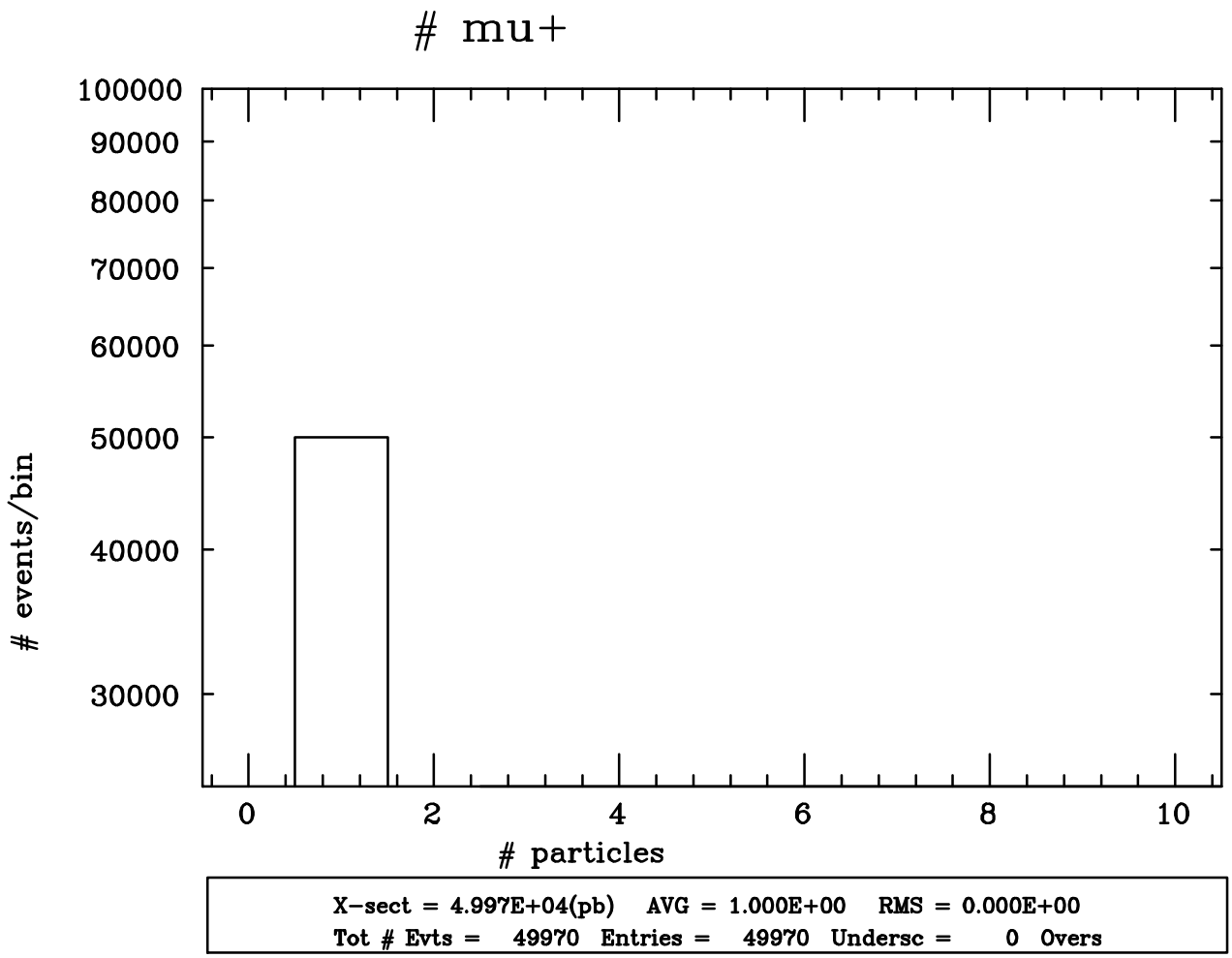
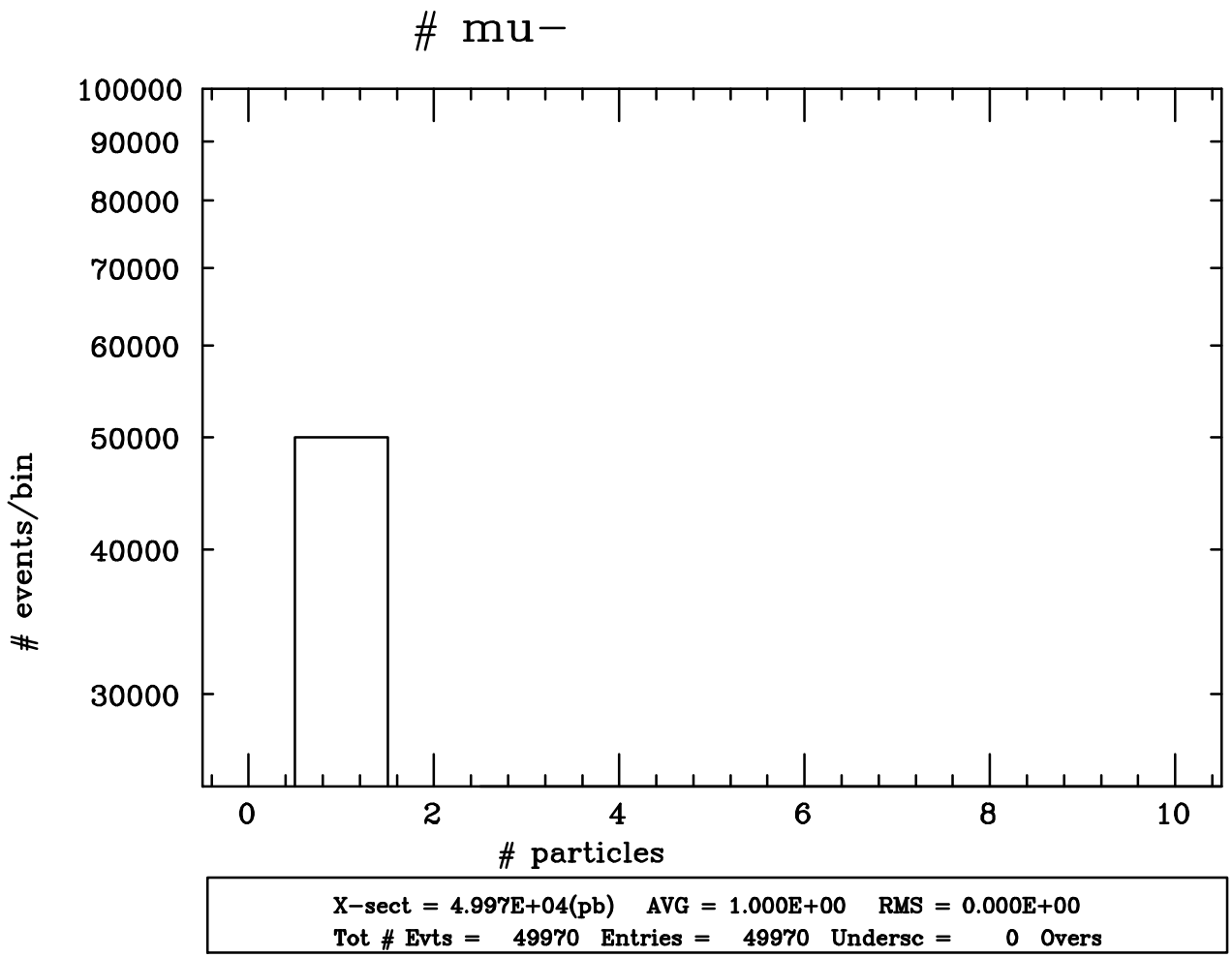
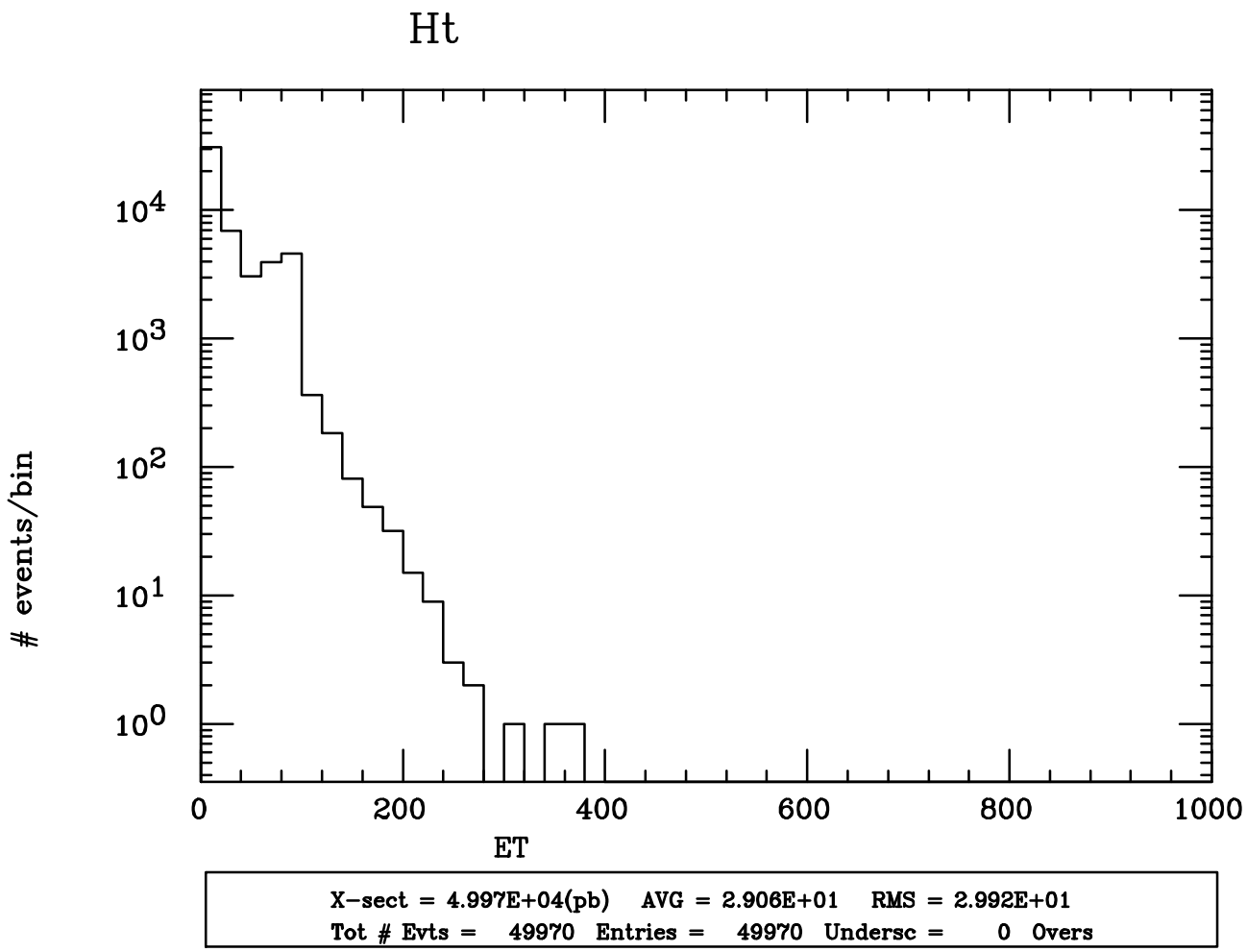

Weights
100000
90000
80000
70000
60000
50000
40000
30000
events/bin
0
0.5
1
1.5
2
wgt
X-sect = 4.997E+04(pb) AVG = 1.010E+00 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs

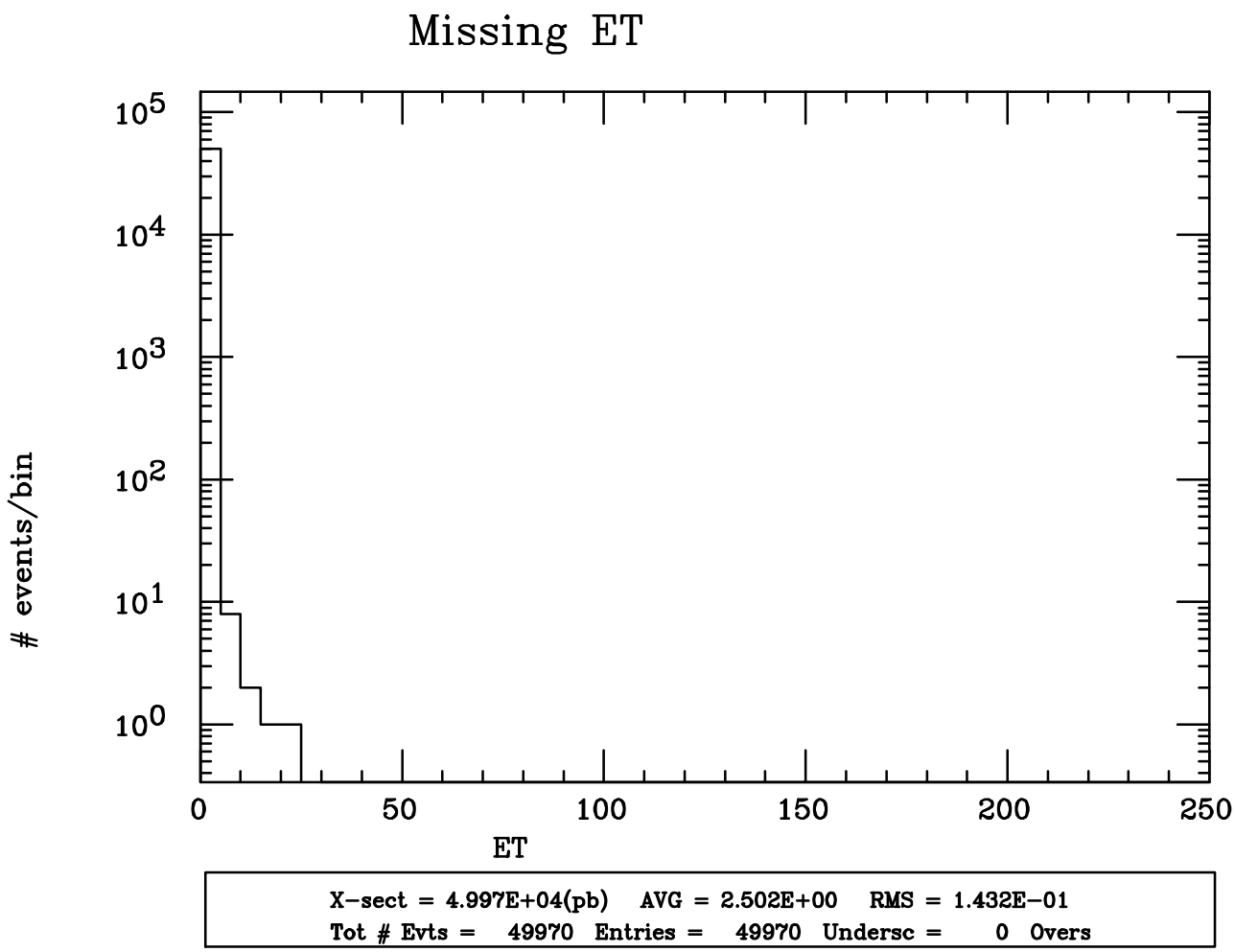

jet
events/bin
10^5
10^4
10^3
10^2
10^1
0
2
4
6
8
10
particles
X-sect = 4.997E+04(pb) AVG = 2.429E-02 RMS = 1.668E-01
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs

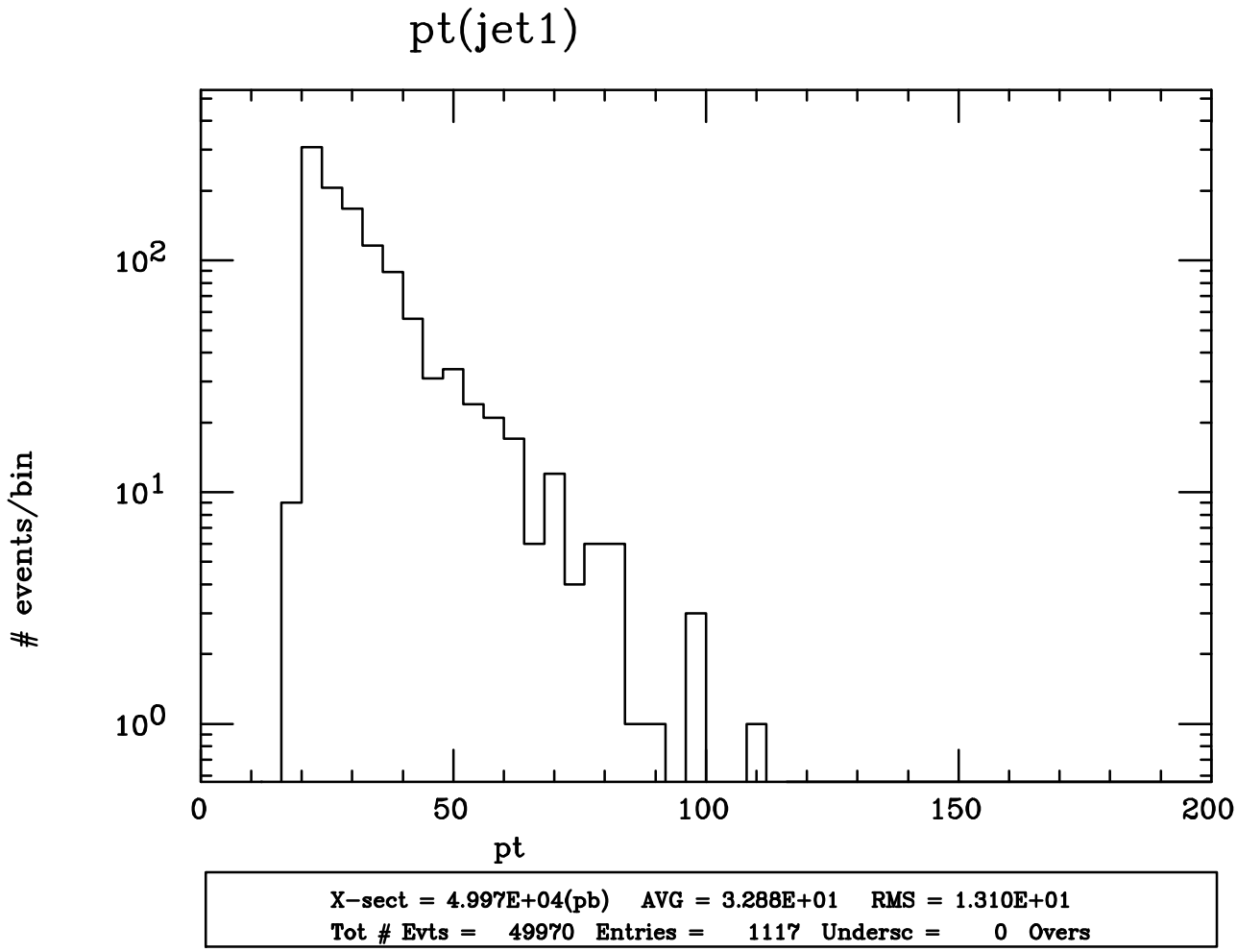

b
events/bin
10^5
10^4
10^3
10^2
10^1
10^0
0
2
4
6
8
10
particles
X-sect = 4.997E+04(pb) AVG = 2.602E-04 RMS = 1.732E-02
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs

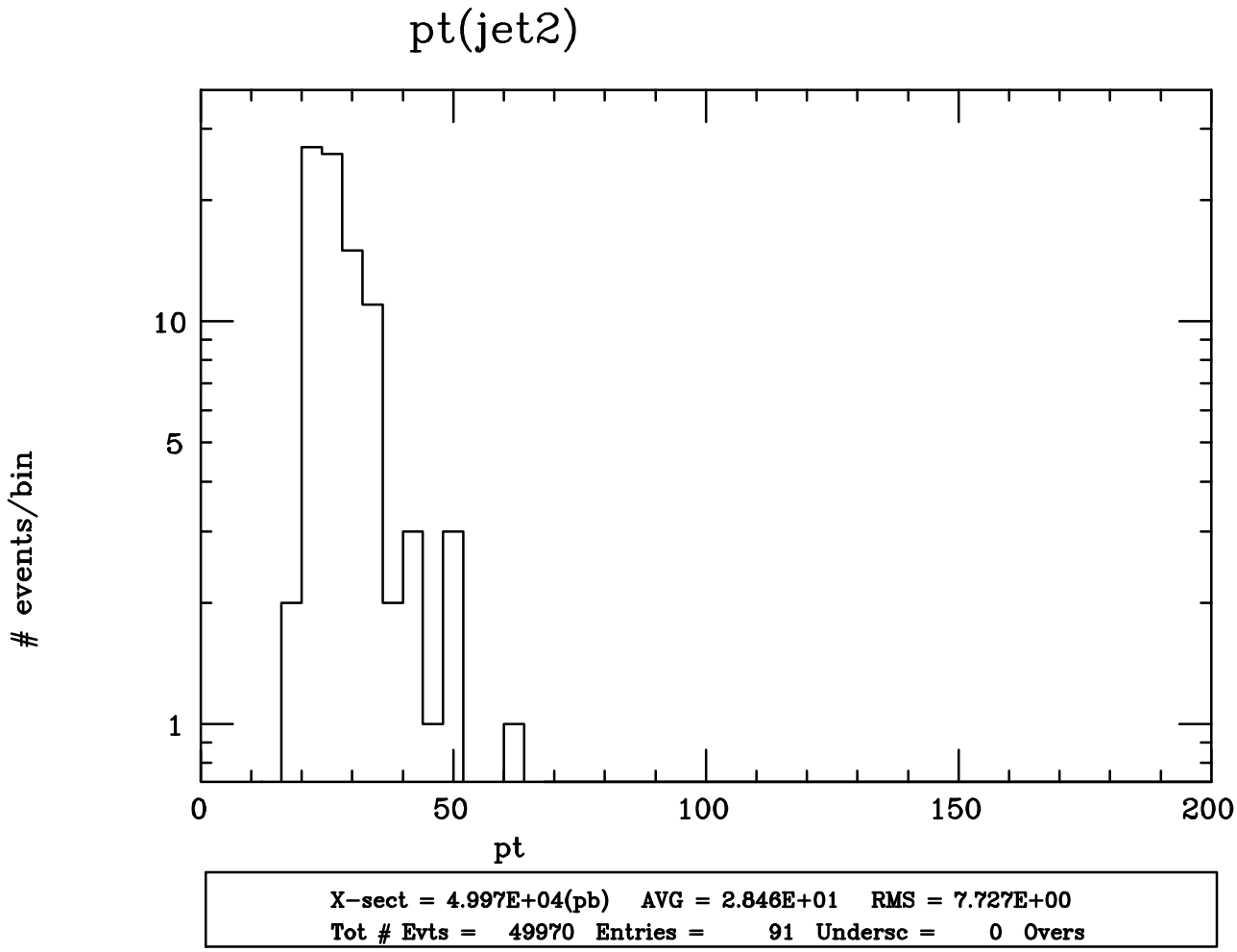

mu+
100000
90000
80000
70000
60000
50000
40000
30000
events/bin
0
2
4
6
8
10
particles
X-sect = 4.997E+04(pb) AVG = 1.000E+00 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs

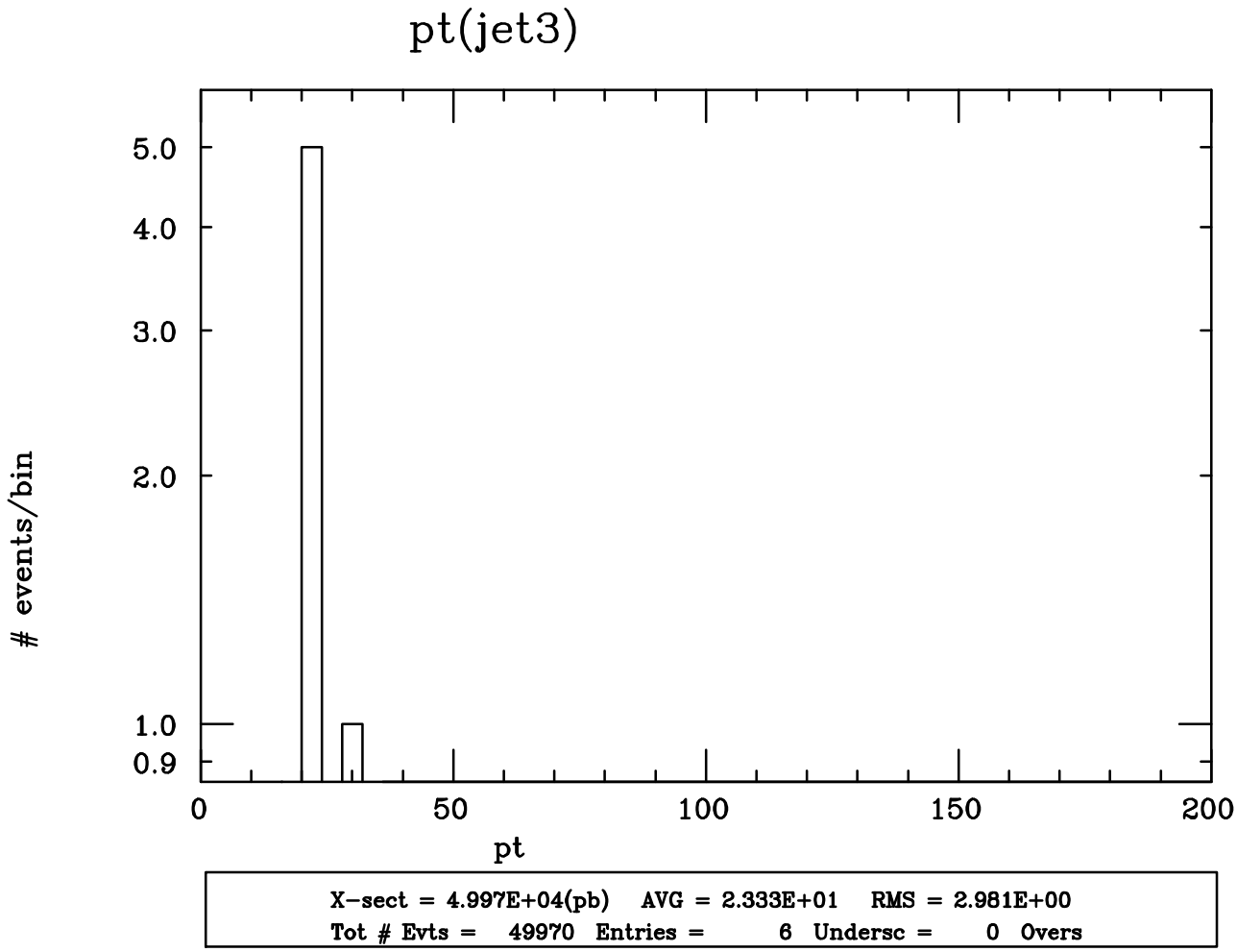

mu−
100000
90000
80000
70000
60000
50000
40000
30000
events/bin
0
2
4
6
8
10
particles
X−sect = 4.997E+04(pb) AVG = 1.000E+00 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs

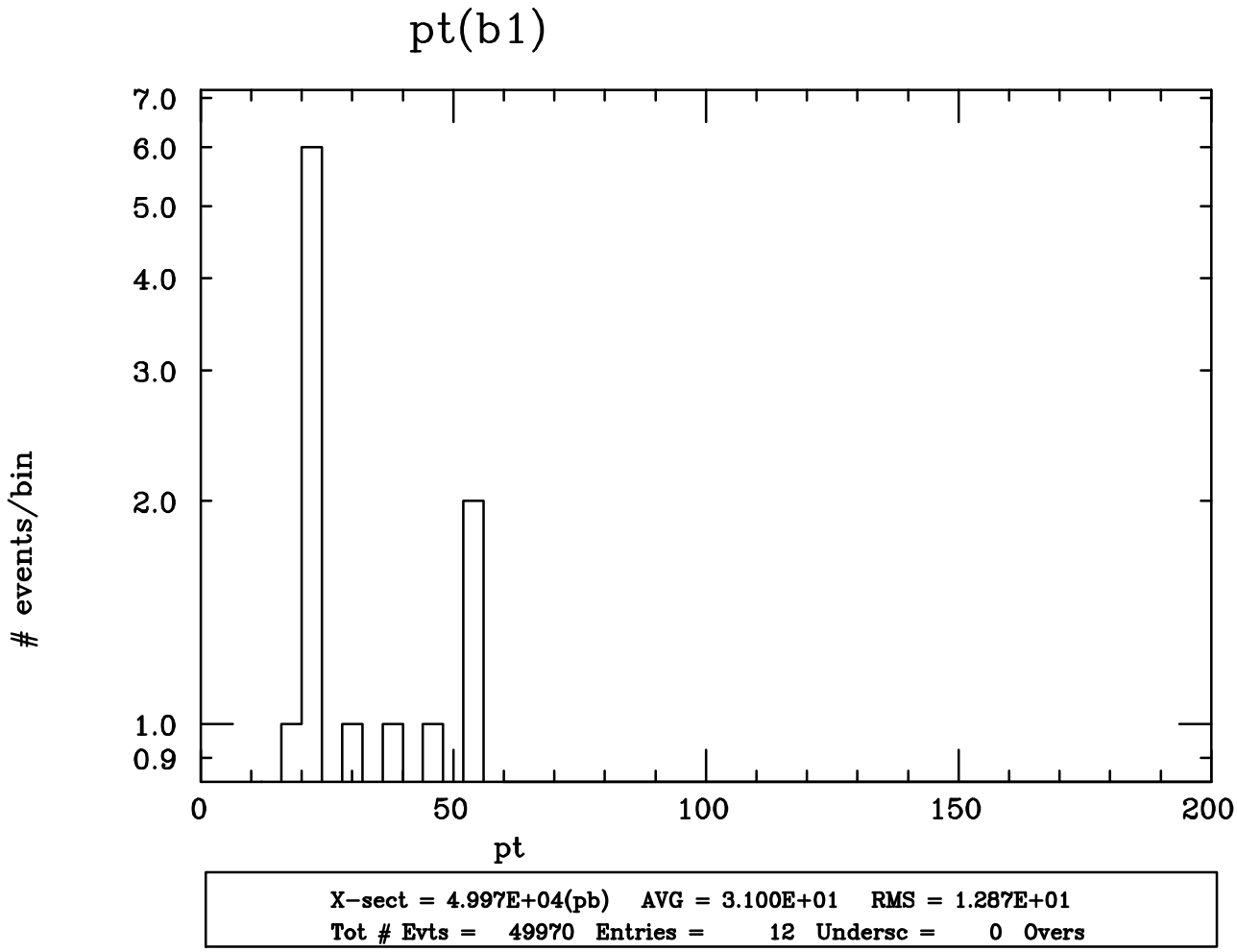

Ht
events/bin
10^4
10^3
10^2
10^1
10^0
0
200
400
600
800
1000
ET
X-sect = 4.997E+04(pb) AVG = 2.906E+01 RMS = 2.992E+01
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs

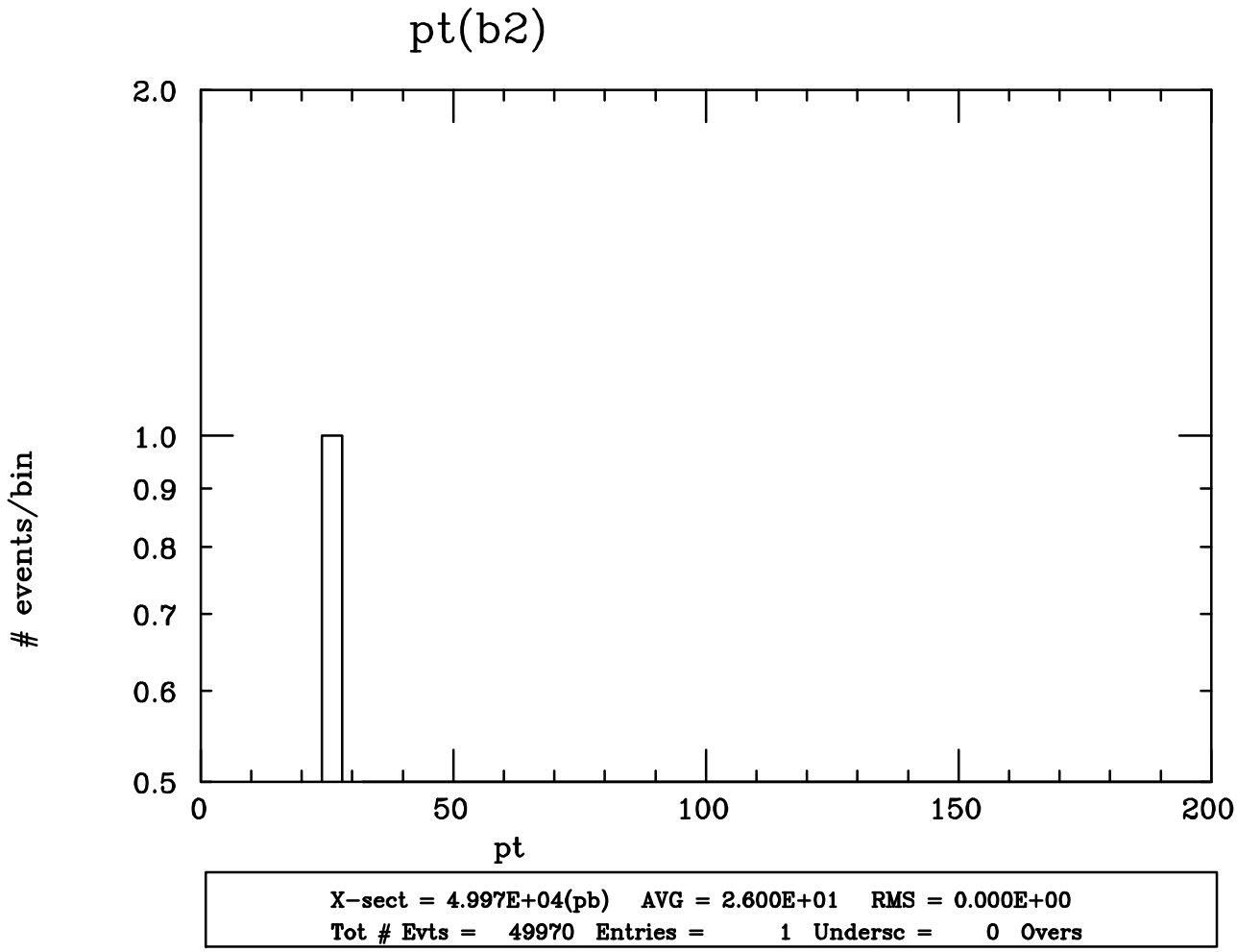

Missing ET
events/bin
10^5
10^4
10^3
10^2
10^1
10^0
0
50
100
150
200
250
ET
X-sect = 4.997E+04(pb) AVG = 2.502E+00 RMS = 1.432E-01
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs

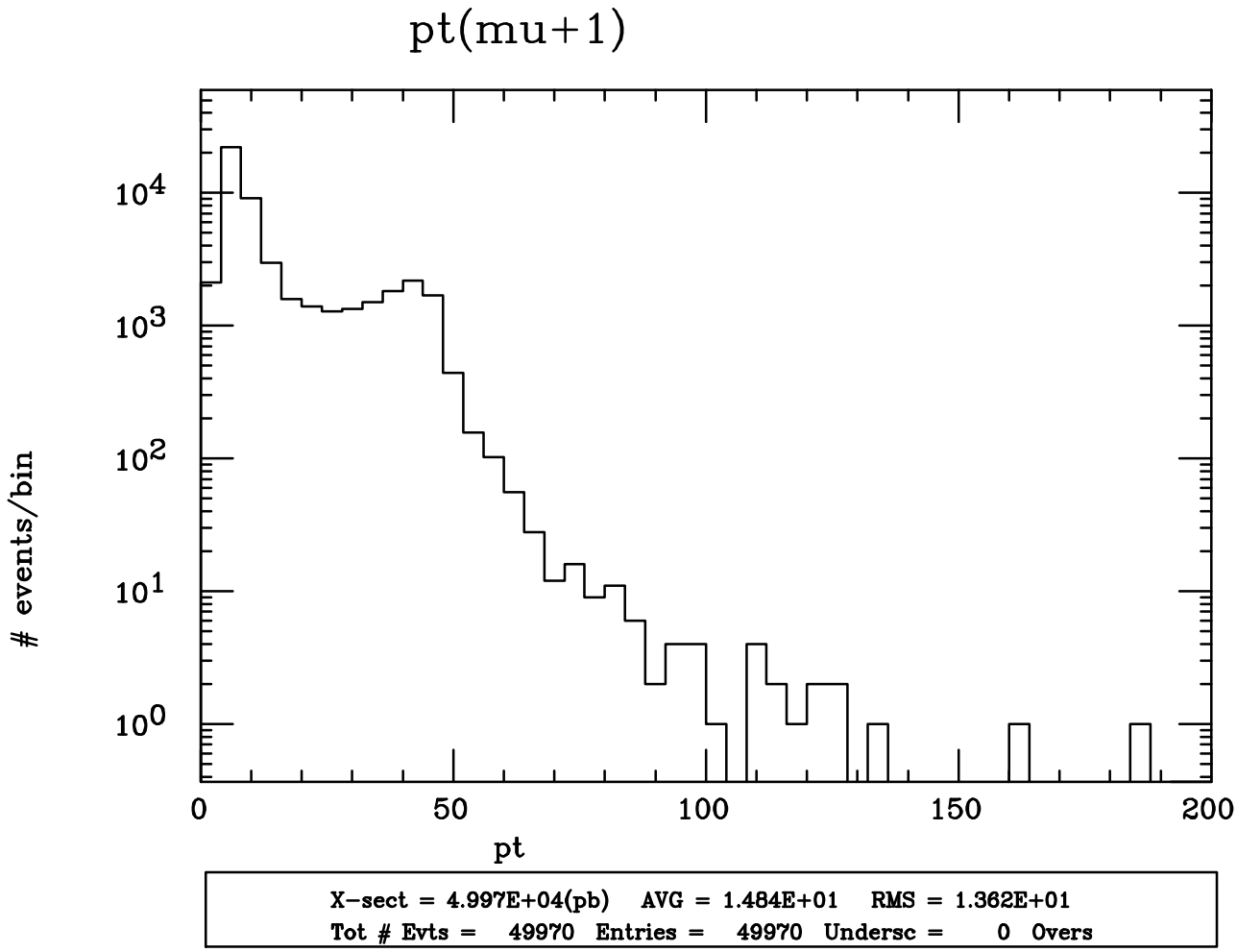

pt(jet1)
# events/bin
10^2
10^1
10^0
0
50
100
150
200
pt
X-sect = 4.997E+04(pb) AVG = 3.288E+01 RMS = 1.310E+01
Tot # Evts = 49970 Entries = 1117 Undersc = 0 Overs

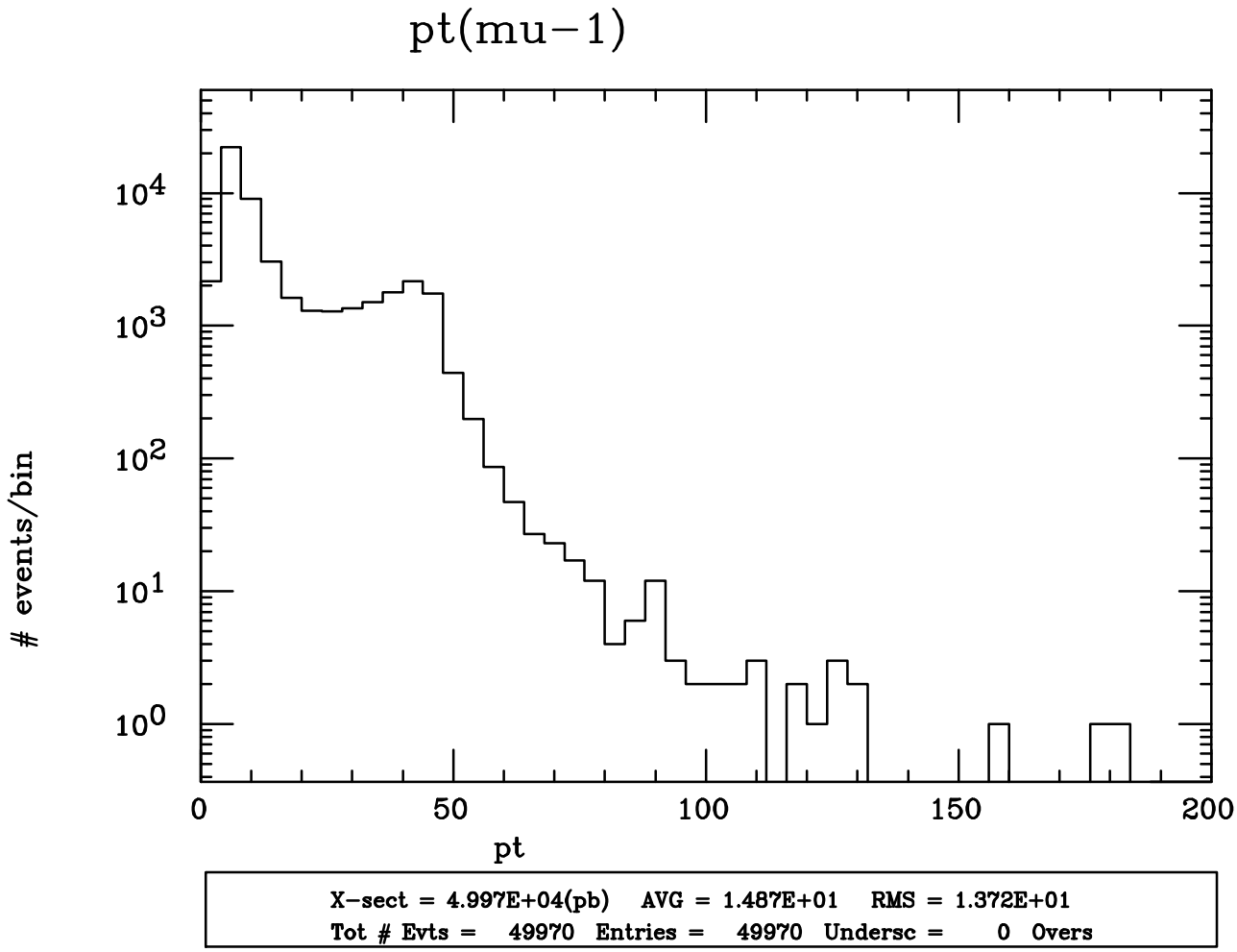

pt(jet2)
# events/bin
10
5
1
0
50
100
150
200
pt
X-sect = 4.997E+04(pb) AVG = 2.846E+01 RMS = 7.727E+00
Tot # Evts = 49970 Entries = 91 Undersc = 0 Overs

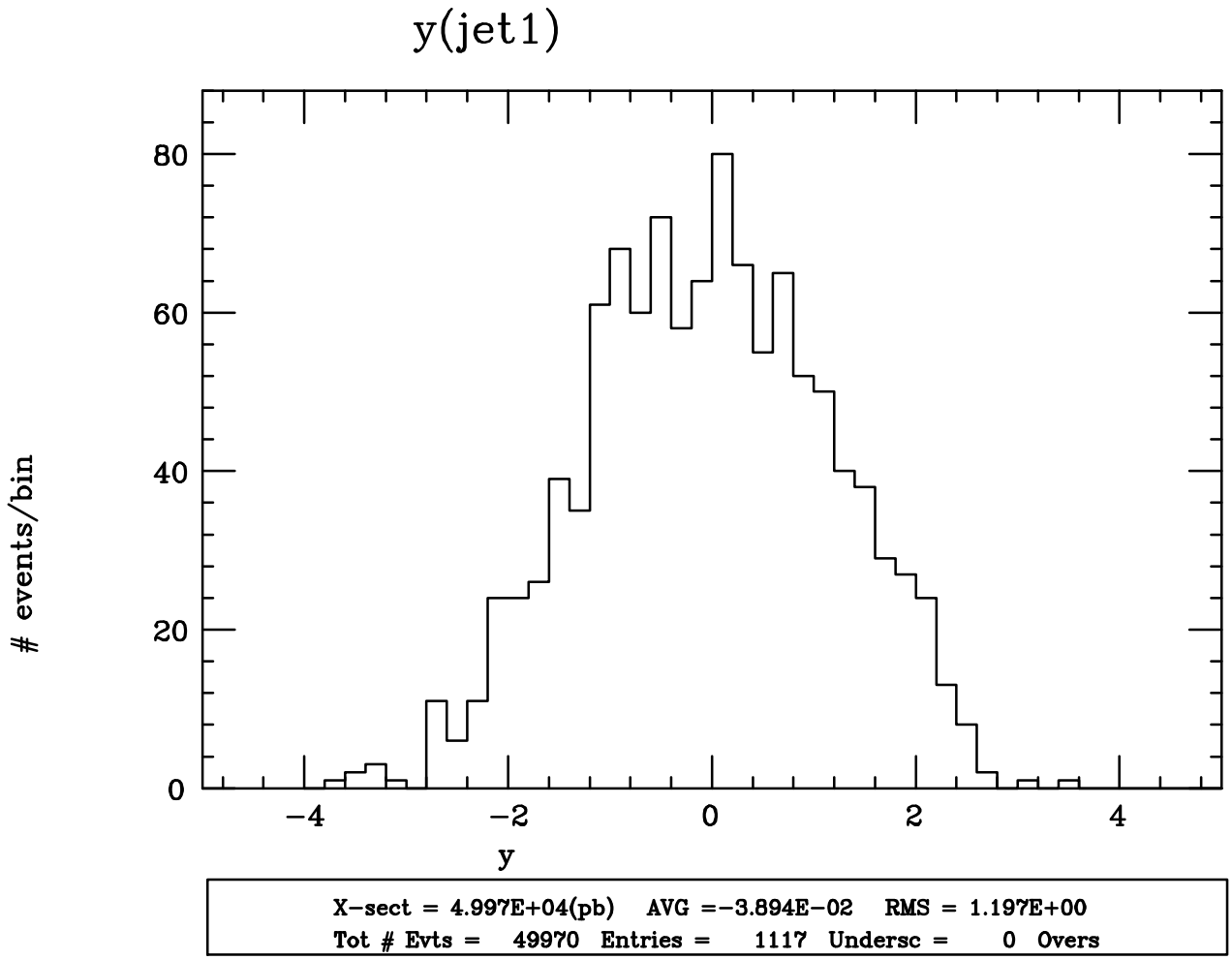

pt(jet3)
# events/bin
5.0
4.0
3.0
2.0
1.0
0.9
0
50
100
150
200
pt
X-sect = 4.997E+04(pb) AVG = 2.333E+01 RMS = 2.981E+00
Tot # Evts = 49970 Entries = 6 Undersc = 0 Overs

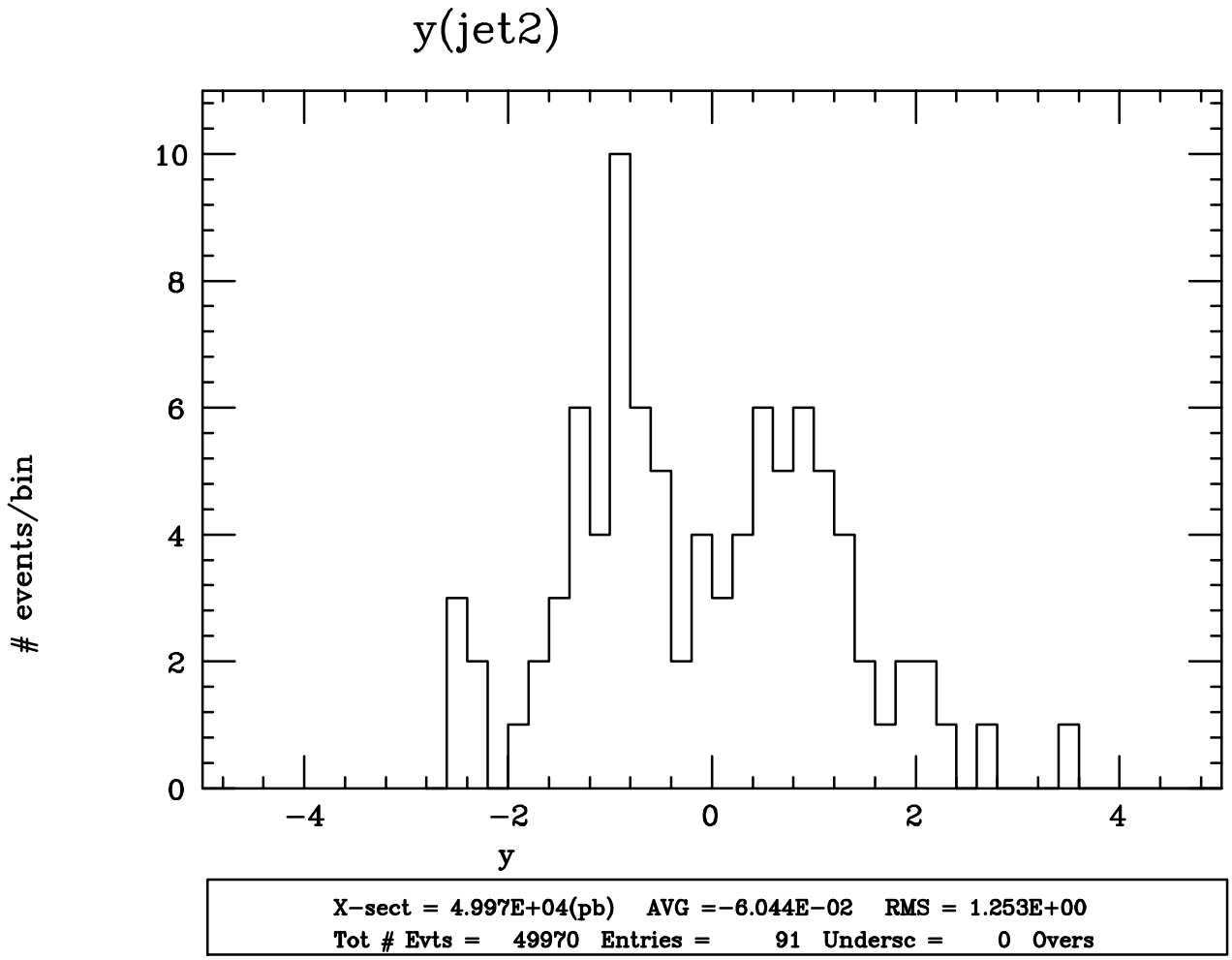

pt(b1)
# events/bin
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.9
0
50
100
150
200
pt
X-sect = 4.997E+04(pb) AVG = 3.100E+01 RMS = 1.287E+01
Tot # Evts = 49970 Entries = 12 Undersc = 0 Overs

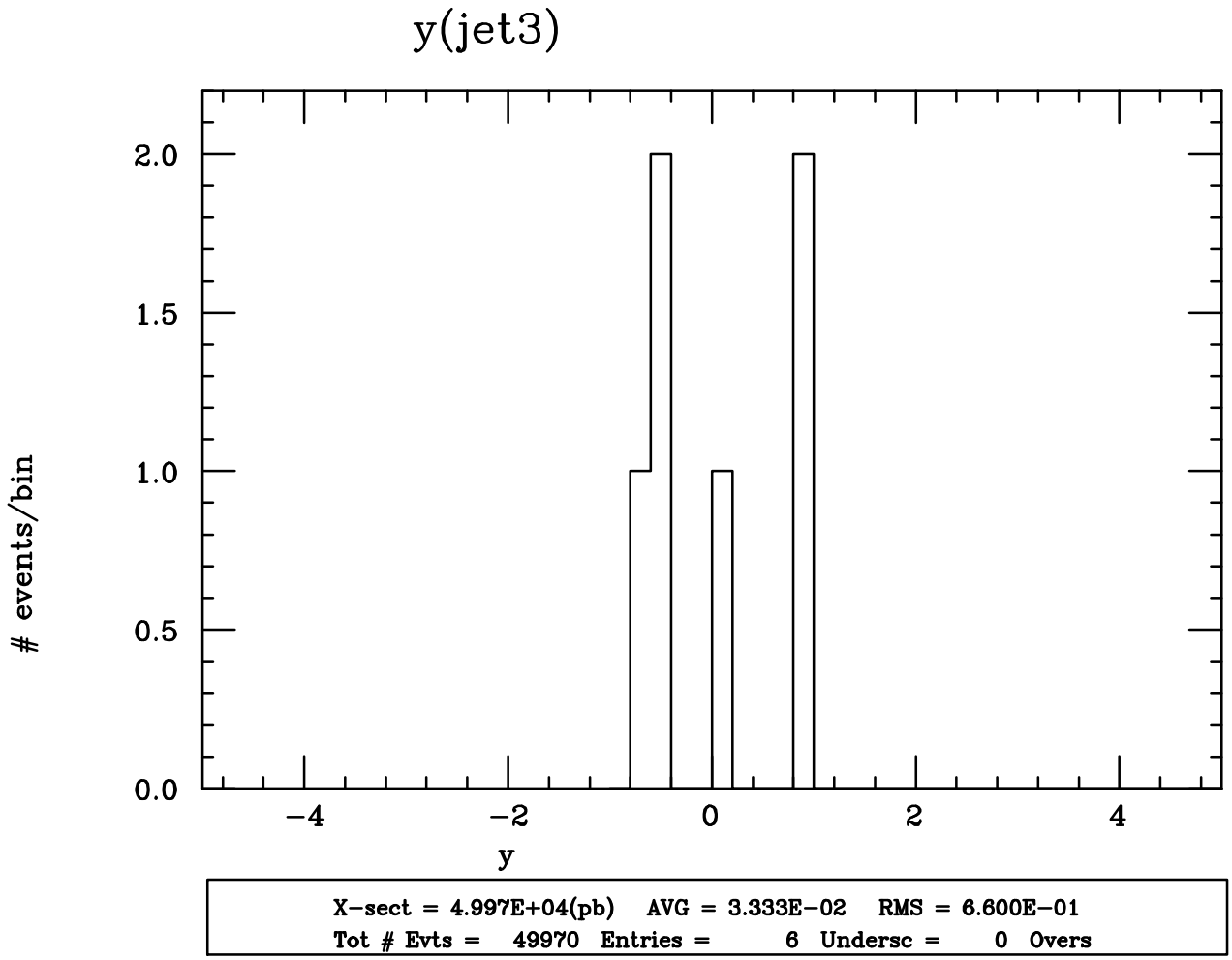

pt(b2)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
50
100
150
200
pt
X-sect = 4.997E+04(pb) AVG = 2.600E+01 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs

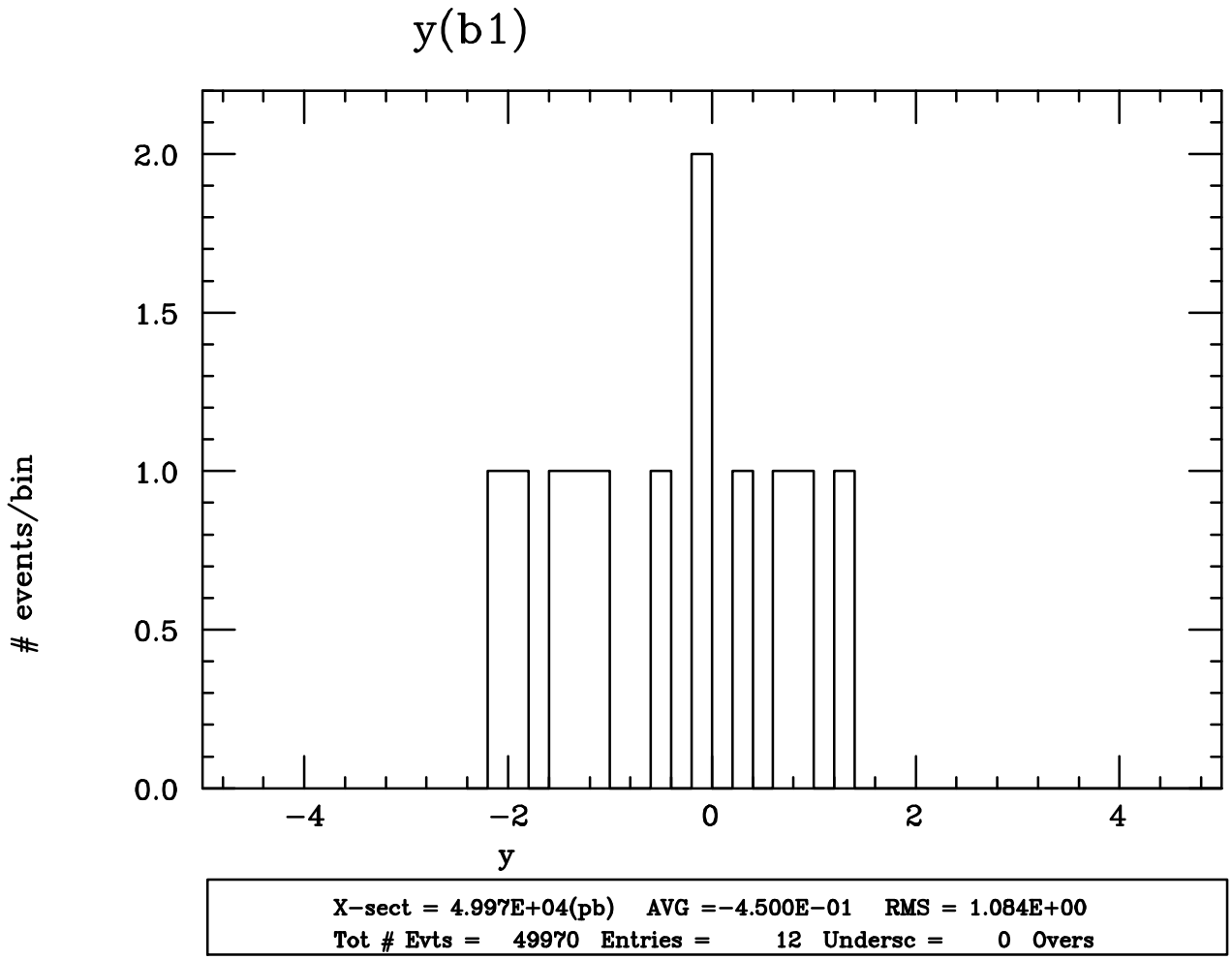

pt(mu+1)
# events/bin
10^4
10^3
10^2
10^1
10^0
0
50
100
150
200
pt
X−sect = 4.997E+04(pb) AVG = 1.484E+01 RMS = 1.362E+01
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs

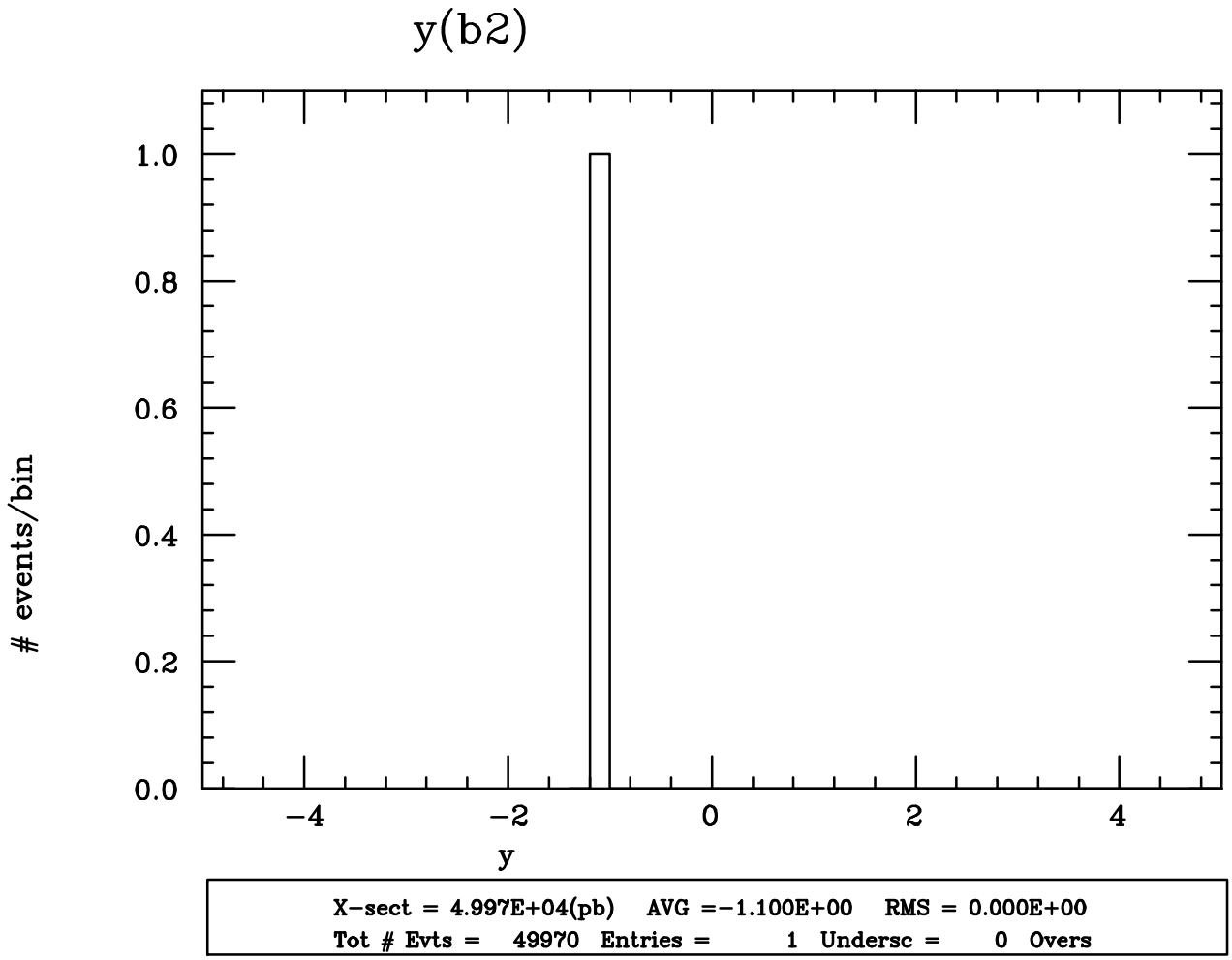

pt(mu−1)
# events/bin
10^4
10^3
10^2
10^1
10^0
0
50
100
150
200
pt
X−sect = 4.997E+04(pb) AVG = 1.487E+01 RMS = 1.372E+01
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs

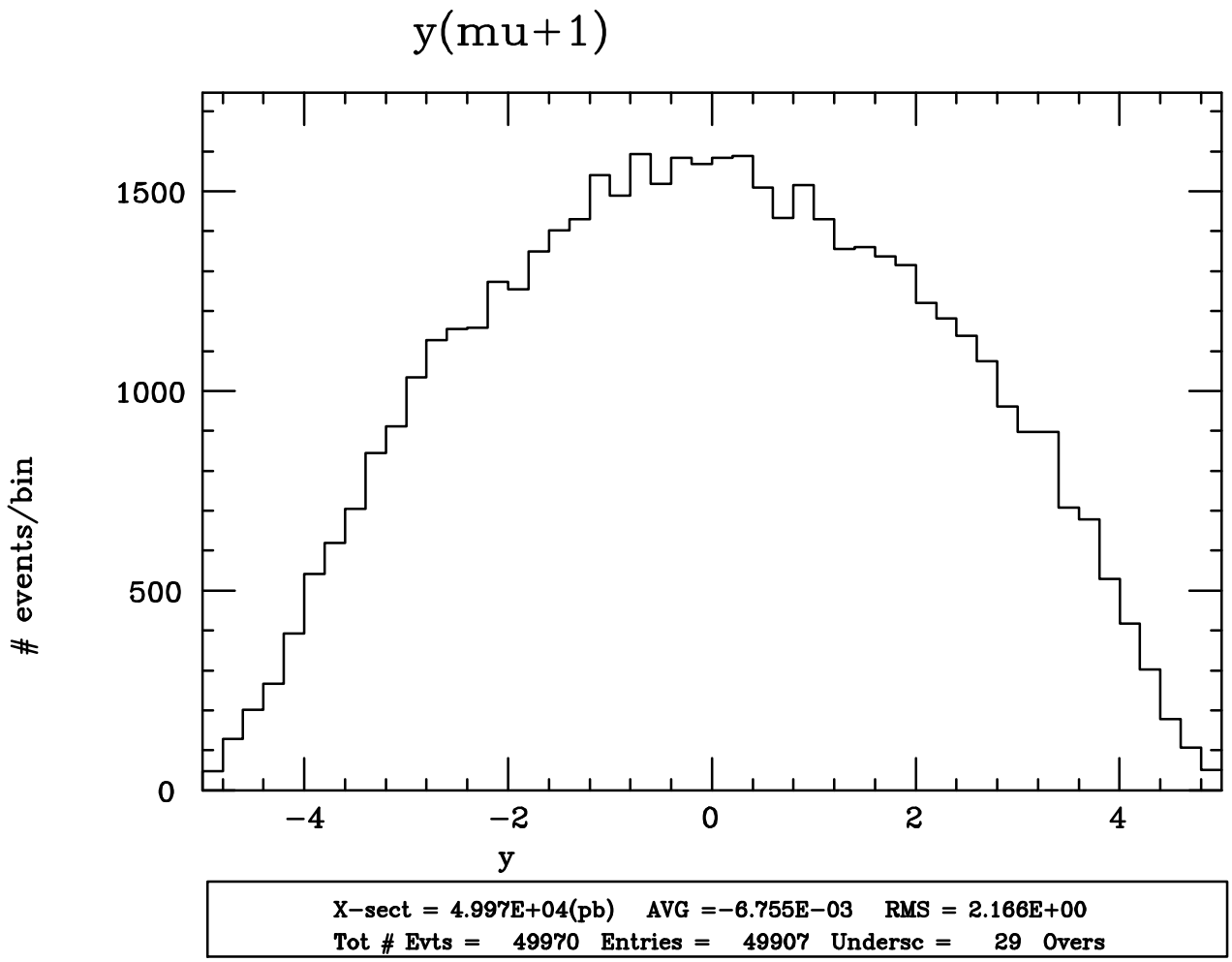

y(jet1)
# events/bin
80
60
40
20
0
−4
−2
0
2
4
y
X−sect = 4.997E+04(pb) AVG =−3.894E−02 RMS = 1.197E+00
Tot # Evts = 49970 Entries = 1117 Undersc = 0 Overs

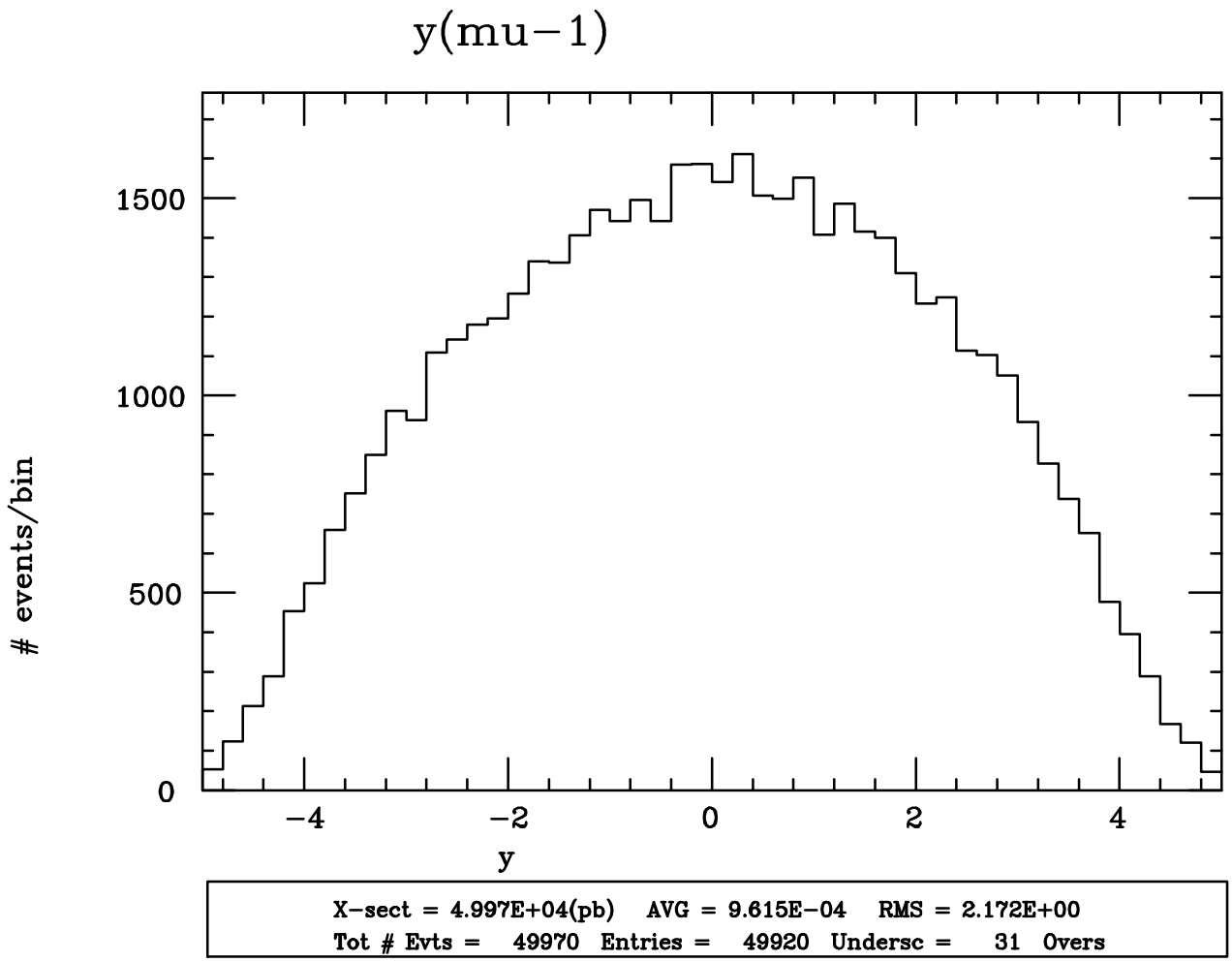

y(jet2)
# events/bin
10
8
6
4
2
0
−4
−2
0
2
4
y
X−sect = 4.997E+04(pb) AVG =−6.044E−02 RMS = 1.253E+00
Tot # Evts = 49970 Entries = 91 Undersc = 0 Overs

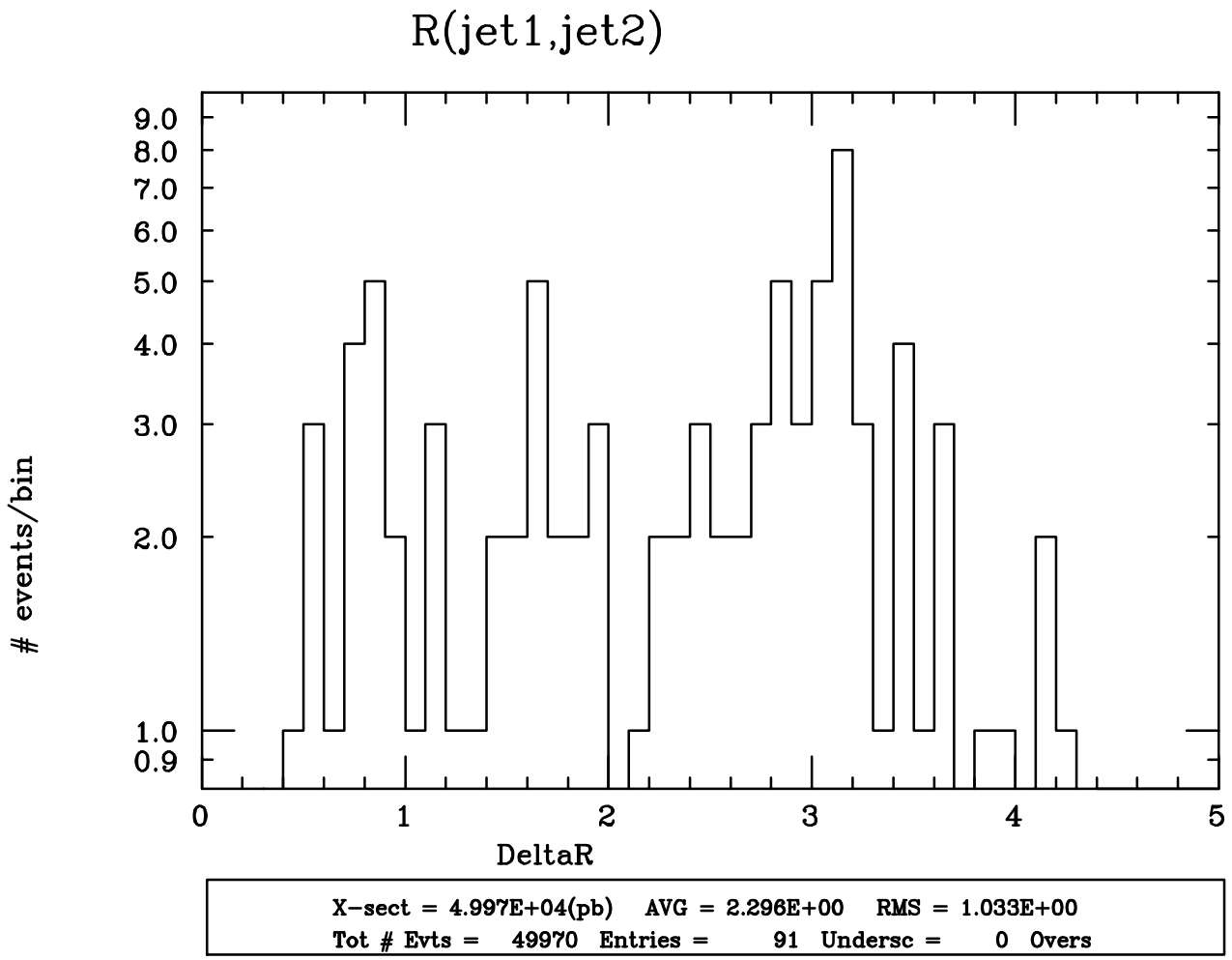

y(jet3)
# events/bin
2.0
1.5
1.0
0.5
0.0
−4
−2
0
2
4
y
X−sect = 4.997E+04(pb) AVG = 3.333E−02 RMS = 6.600E−01
Tot # Evts = 49970 Entries = 6 Undersc = 0 Overs

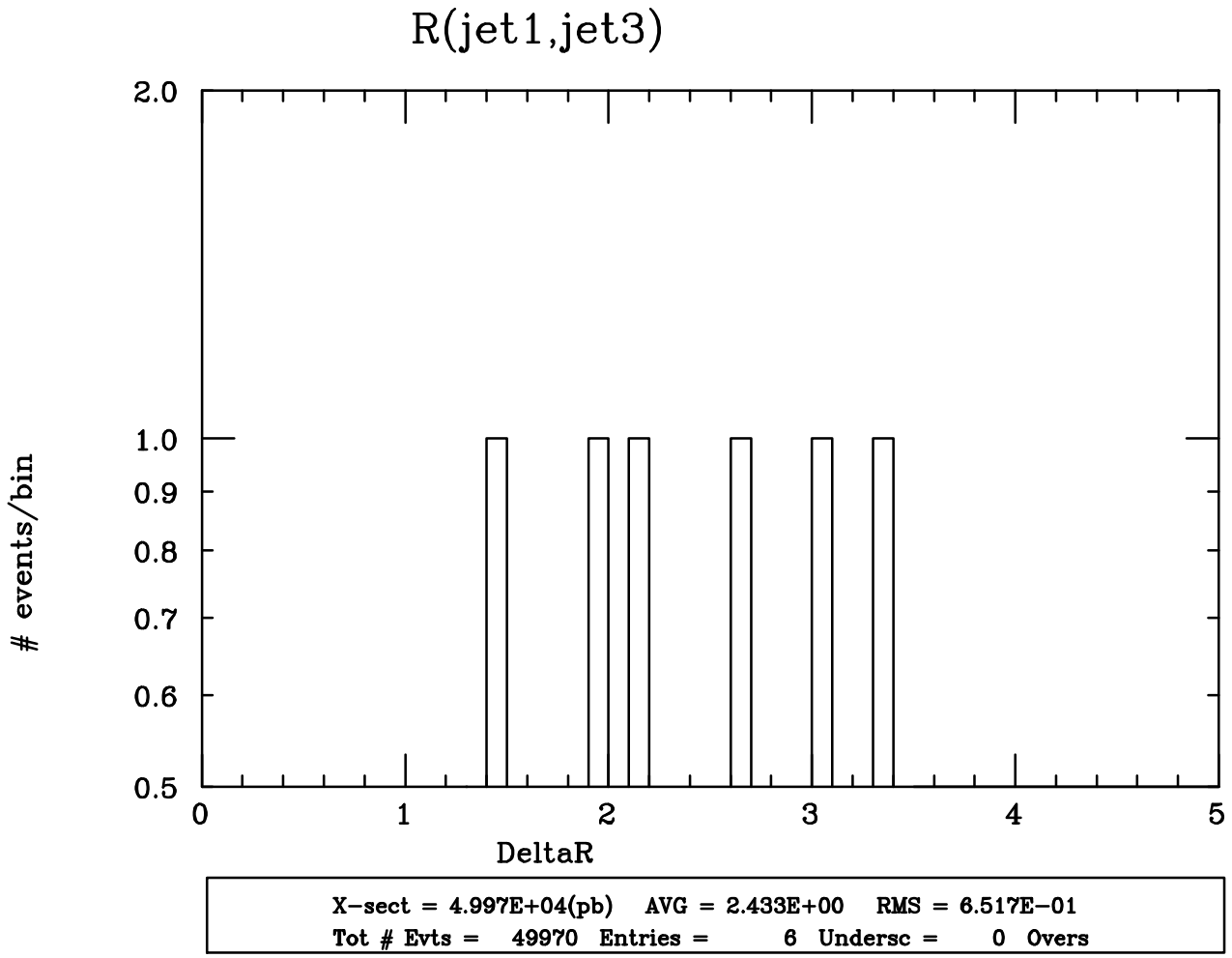

y(b1)
# events/bin
2.0
1.5
1.0
0.5
0.0
−4
−2
0
2
4
y
X−sect = 4.997E+04(pb) AVG =−4.500E−01 RMS = 1.084E+00
Tot # Evts = 49970 Entries = 12 Undersc = 0 Overs

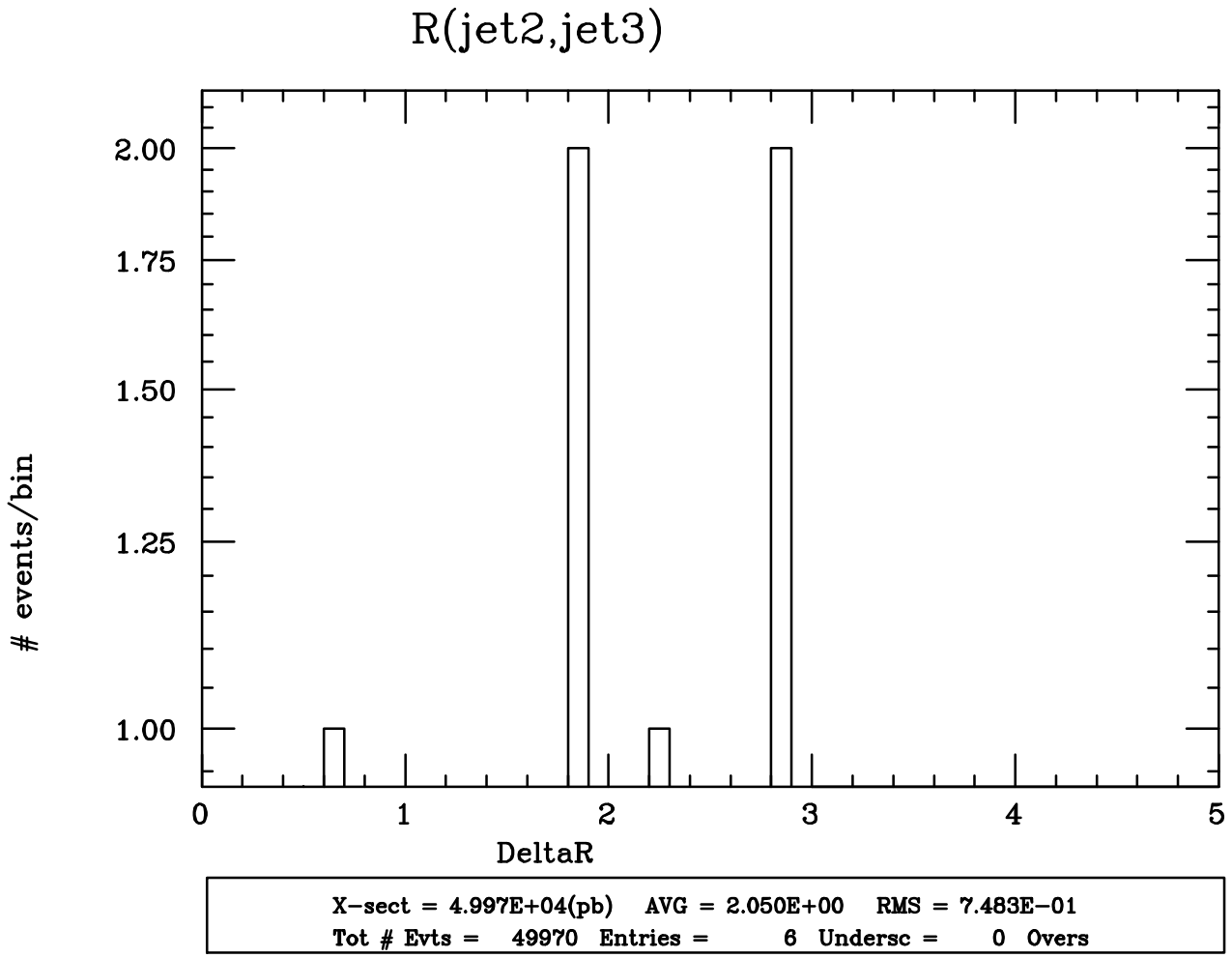

y(b2)
# events/bin
1.0
0.8
0.6
0.4
0.2
0.0
−4
−2
0
2
4
y
X−sect = 4.997E+04(pb) AVG =−1.100E+00 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs

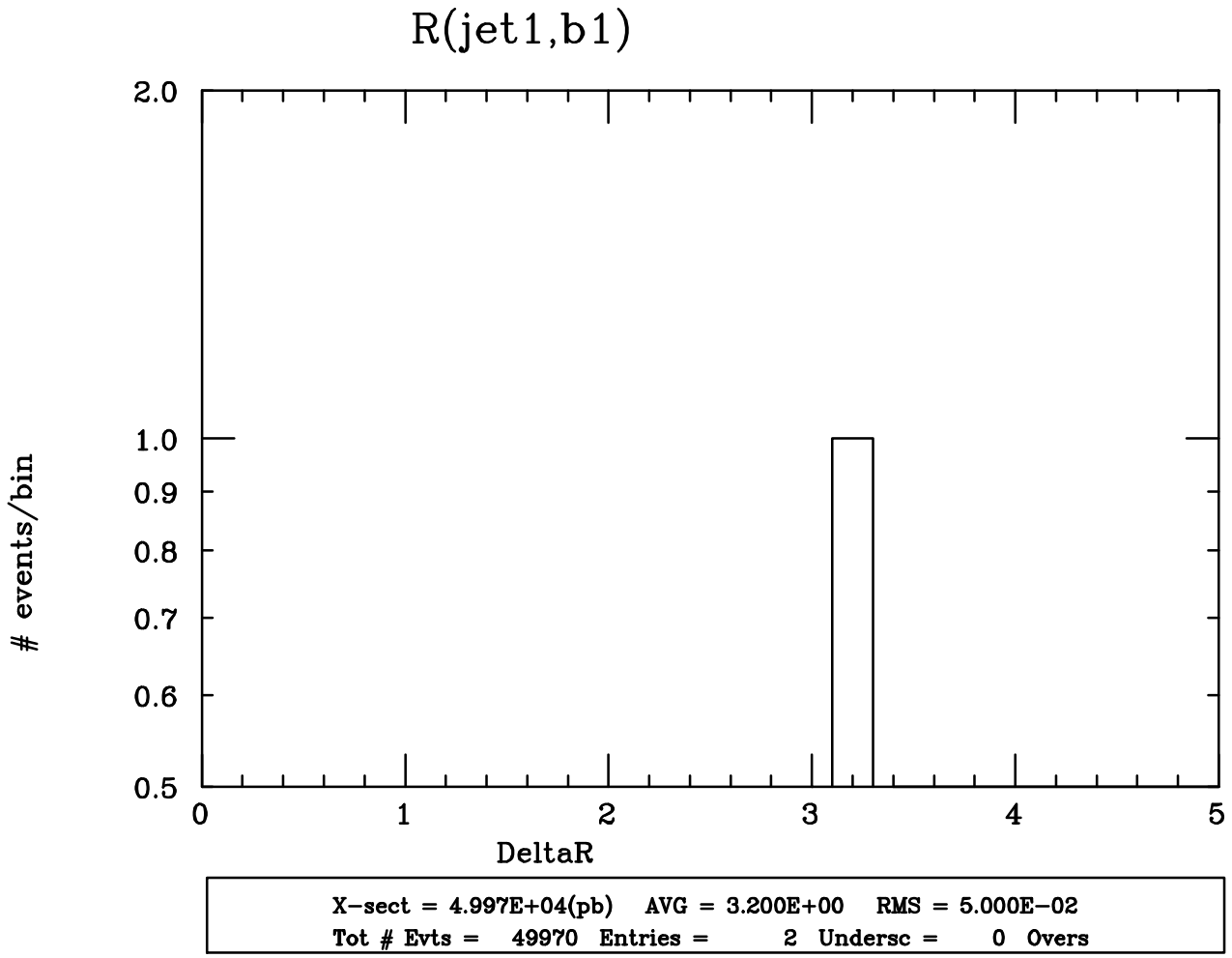

y(mu+1)
# events/bin
1500
1000
500
0
−4
−2
0
2
4
y
X−sect = 4.997E+04(pb) AVG =−6.755E−03 RMS = 2.166E+00
Tot # Evts = 49970 Entries = 49907 Undersc = 29 Overs

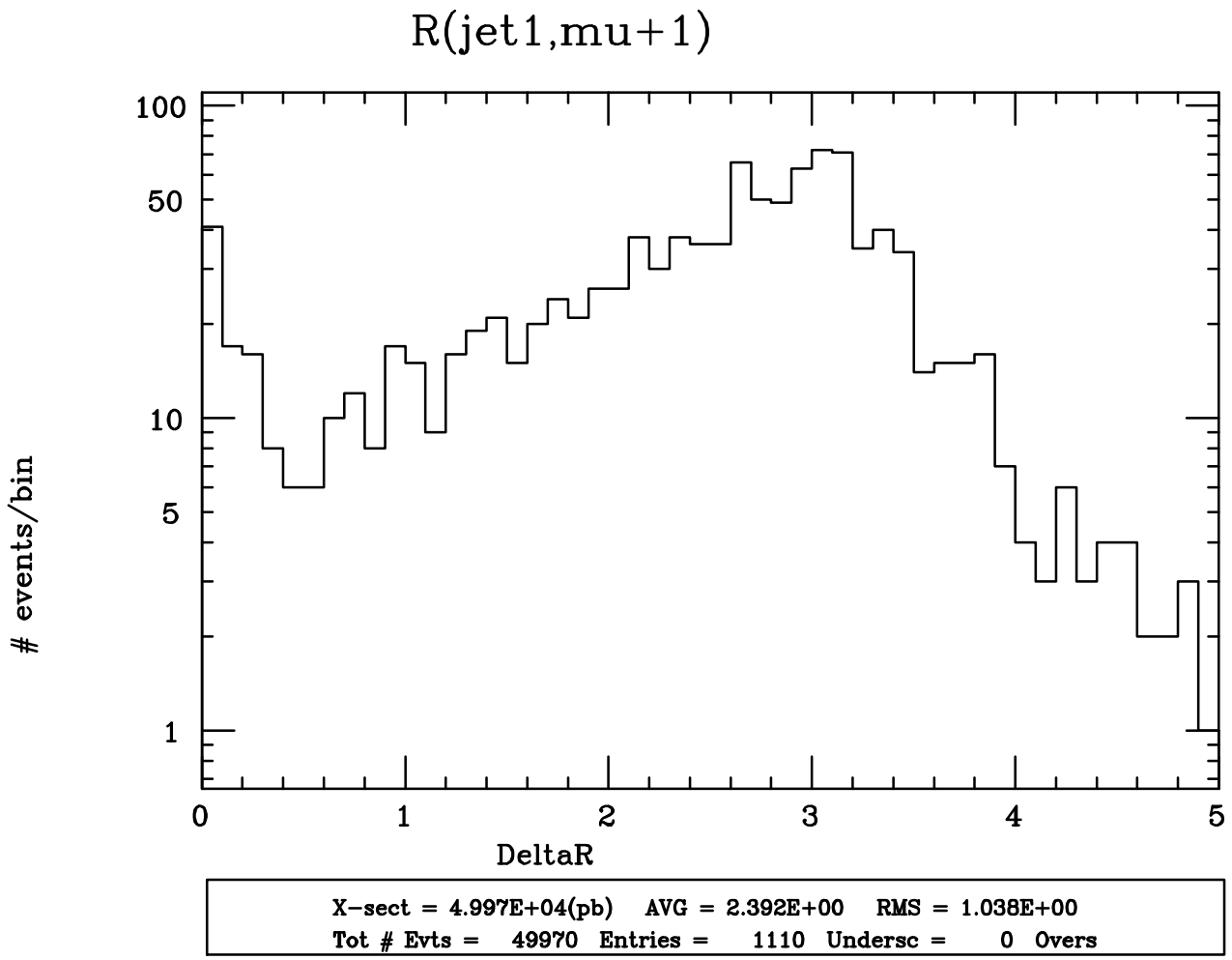

y(mu−1)
# events/bin
1500
1000
500
0
−4
−2
0
2
4
y
X−sect = 4.997E+04(pb) AVG = 9.615E−04 RMS = 2.172E+00
Tot # Evts = 49970 Entries = 49920 Undersc = 31 Overs

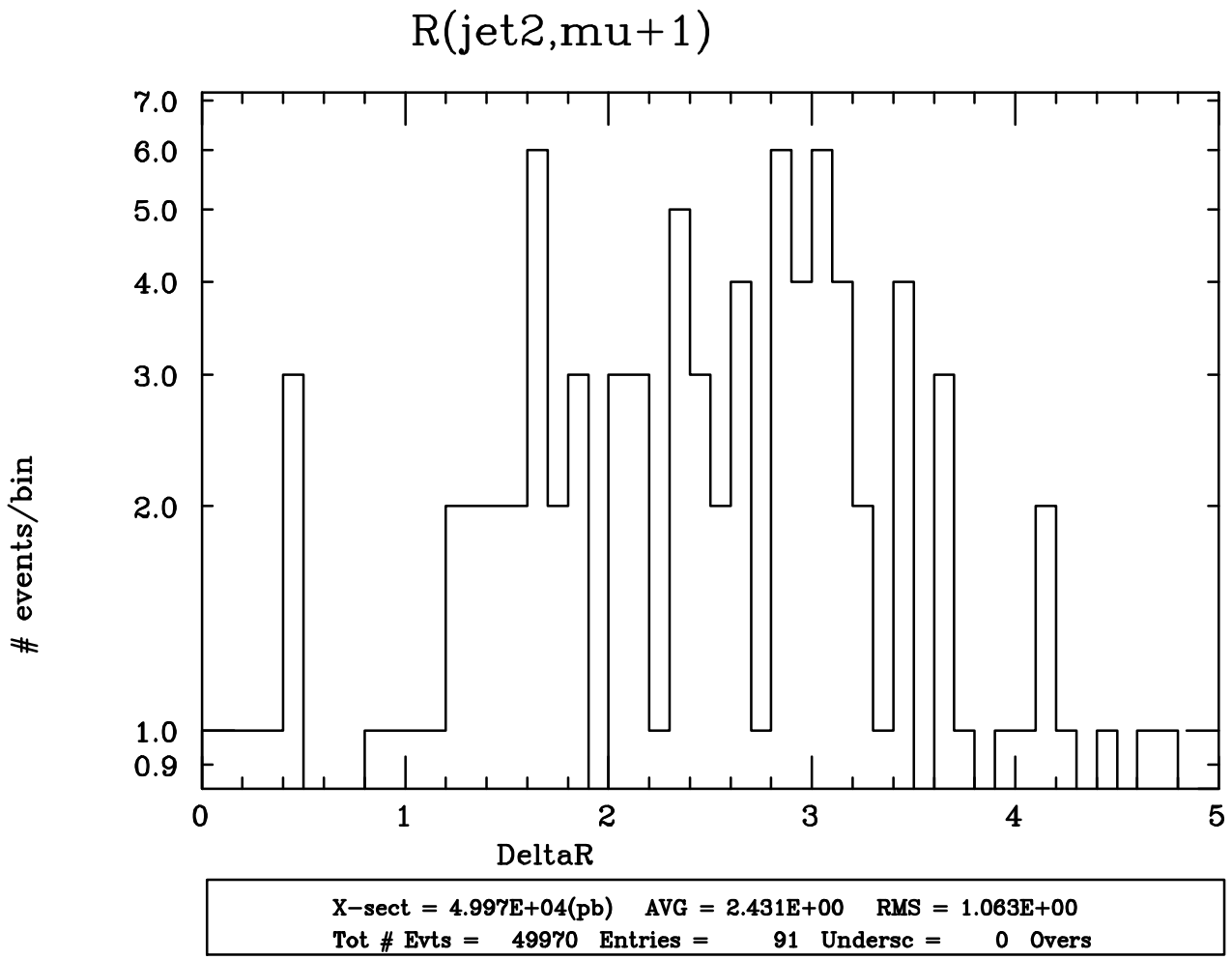

R(jet1,jet2)
# events/bin
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.9
0
1
2
3
4
5
DeltaR
X-sect = 4.997E+04(pb) AVG = 2.296E+00 RMS = 1.033E+00
Tot # Evts = 49970 Entries = 91 Undersc = 0 Overs

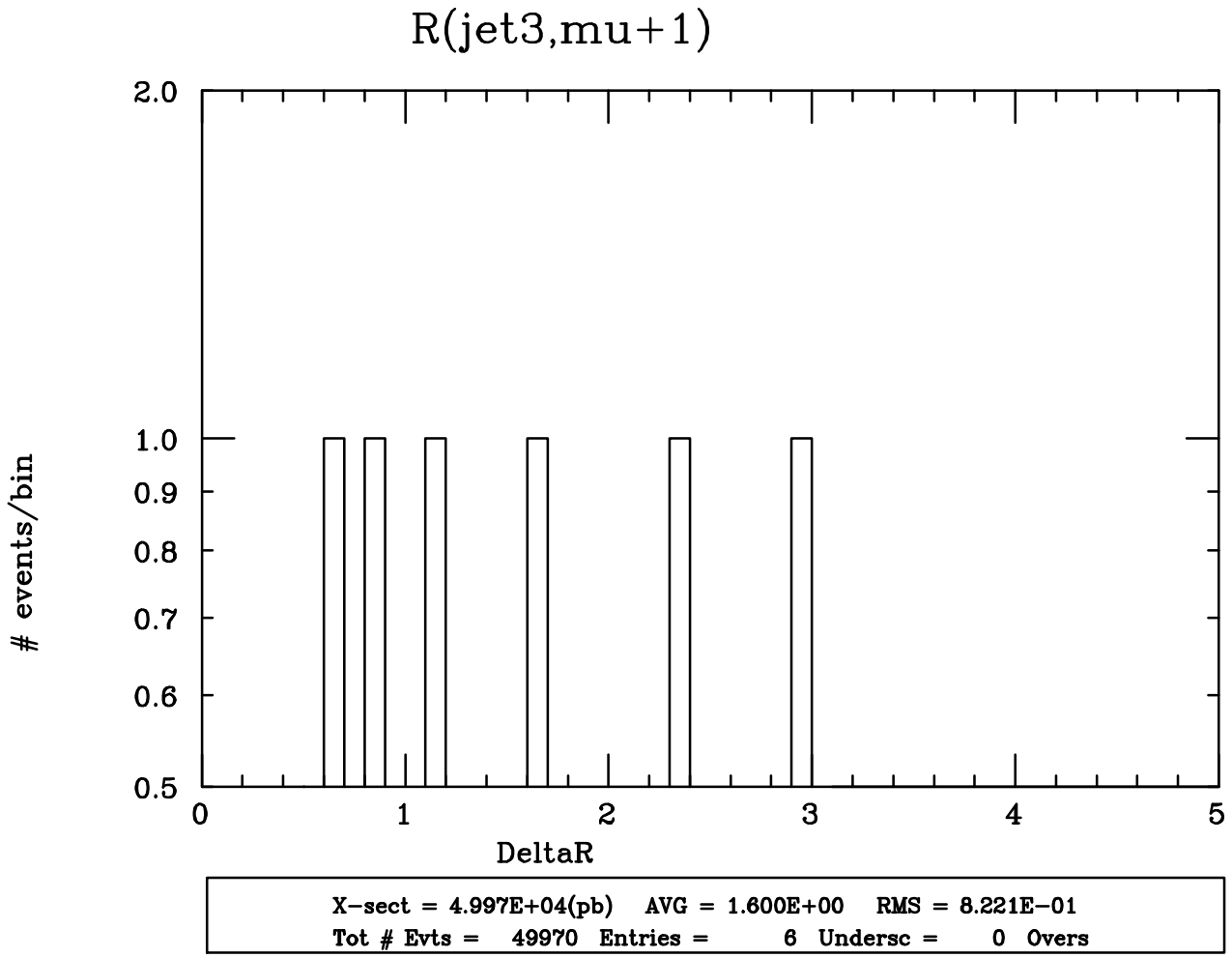

R(jet1,jet3)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
1
2
3
4
5
DeltaR
X-sect = 4.997E+04(pb) AVG = 2.433E+00 RMS = 6.517E-01
Tot # Evts = 49970 Entries = 6 Undersc = 0 Overs

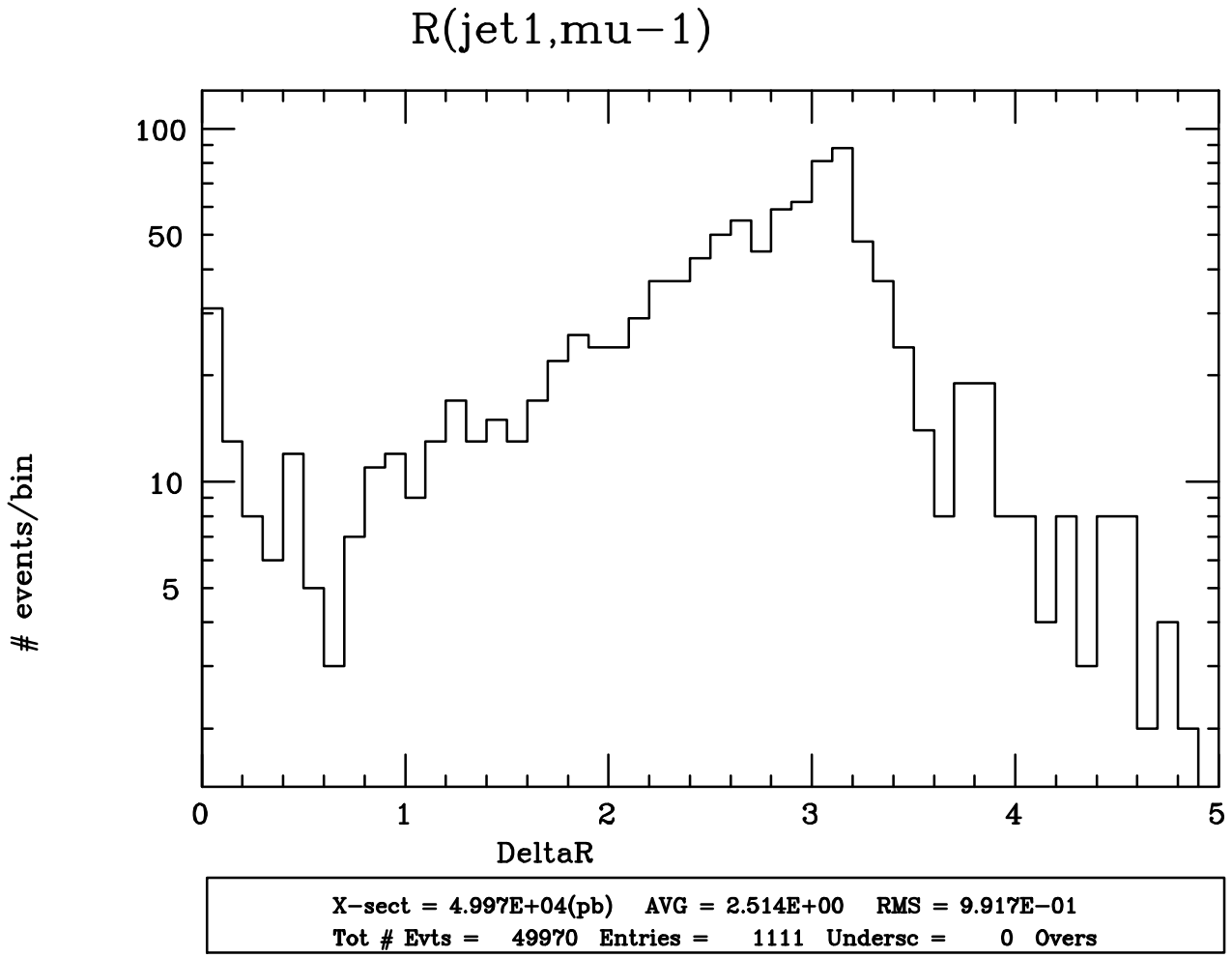

R(jet2,jet3)
# events/bin
2.00
1.75
1.50
1.25
1.00
0
1
2
3
4
5
DeltaR
X-sect = 4.997E+04(pb) AVG = 2.050E+00 RMS = 7.483E-01
Tot # Evts = 49970 Entries = 6 Undersc = 0 Overs

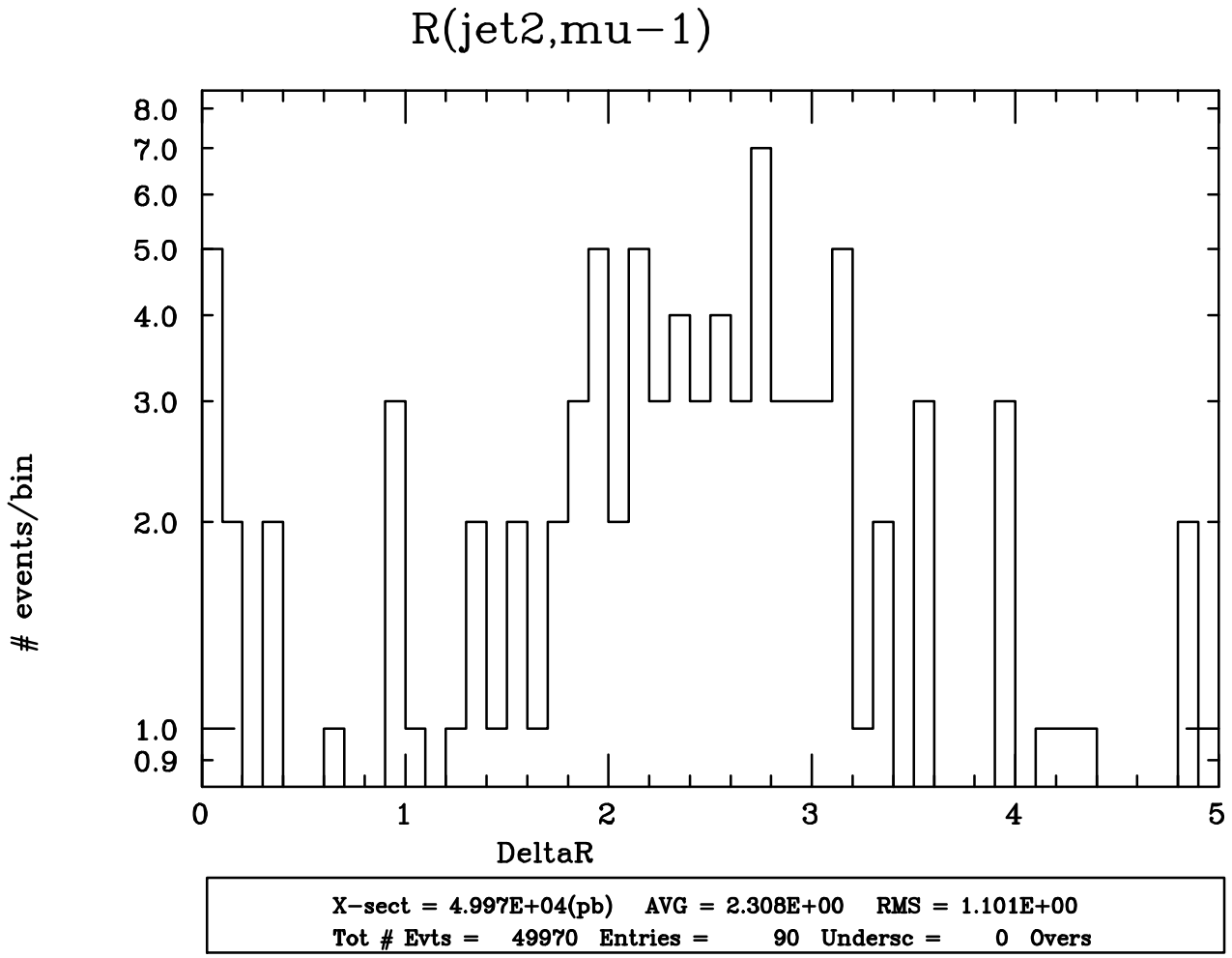

R(jet1,b1)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
1
2
3
4
5
DeltaR
X-sect = 4.997E+04(pb) AVG = 3.200E+00 RMS = 5.000E-02
Tot # Evts = 49970 Entries = 2 Undersc = 0 Overs

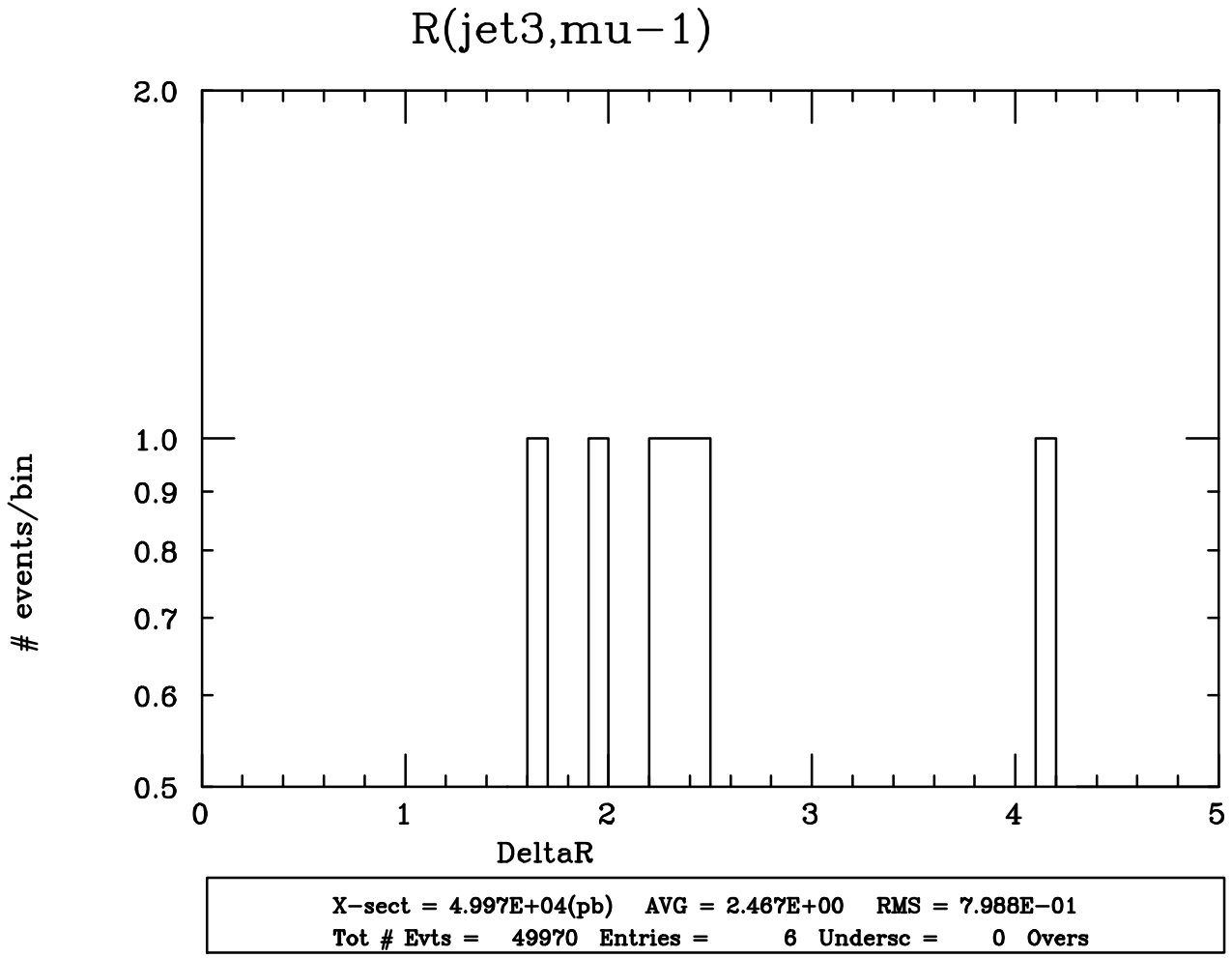

R(jet1,mu+1)
100
50
10
5
1
events/bin
0
1
2
3
4
5
DeltaR
X-sect = 4.997E+04(pb) AVG = 2.392E+00 RMS = 1.038E+00
Tot # Evts = 49970 Entries = 1110 Undersc = 0 Overs

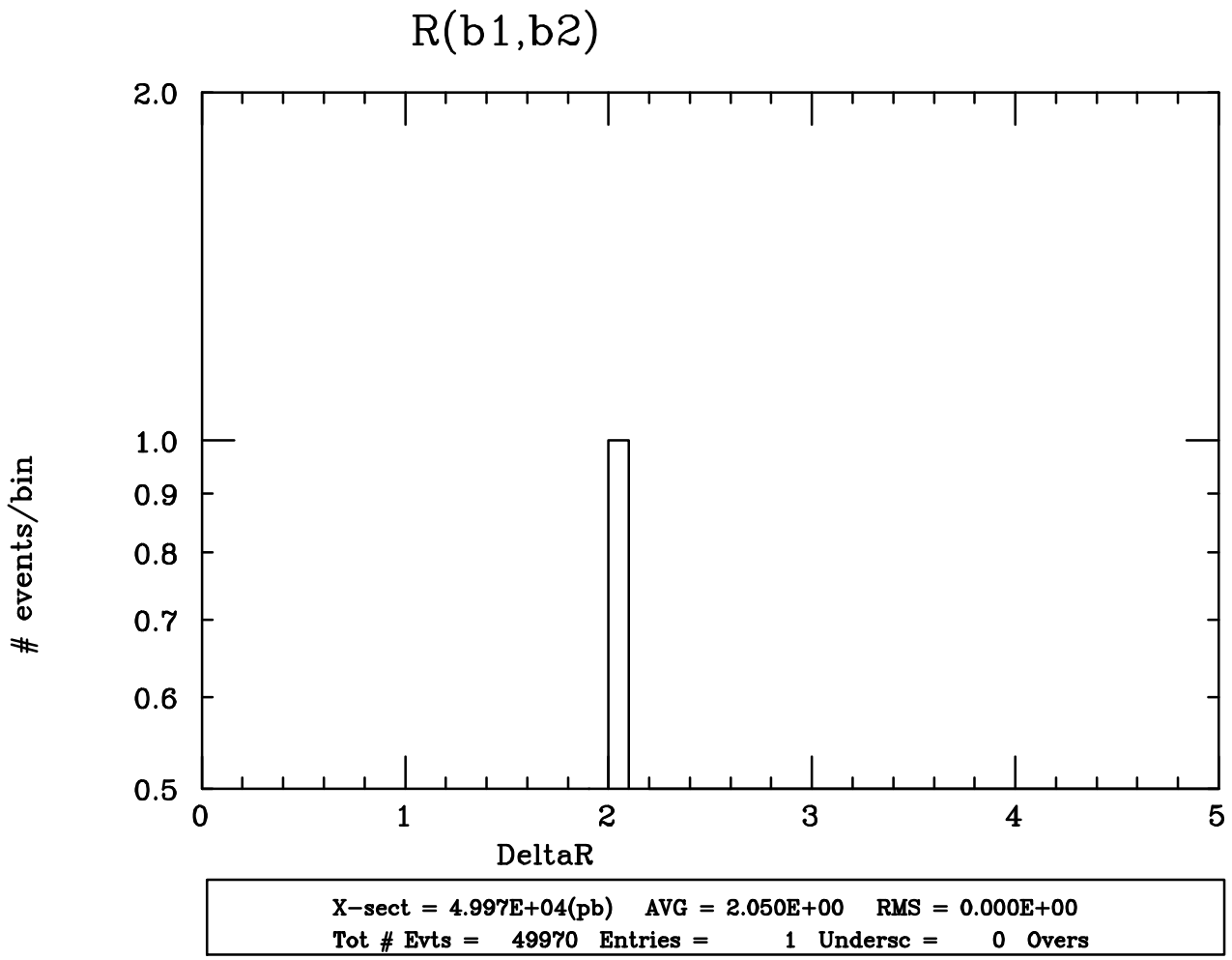

R(jet2,mu+1)
# events/bin
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.9
0
1
2
3
4
5
DeltaR
X-sect = 4.997E+04(pb) AVG = 2.431E+00 RMS = 1.063E+00
Tot # Evts = 49970 Entries = 91 Undersc = 0 Overs

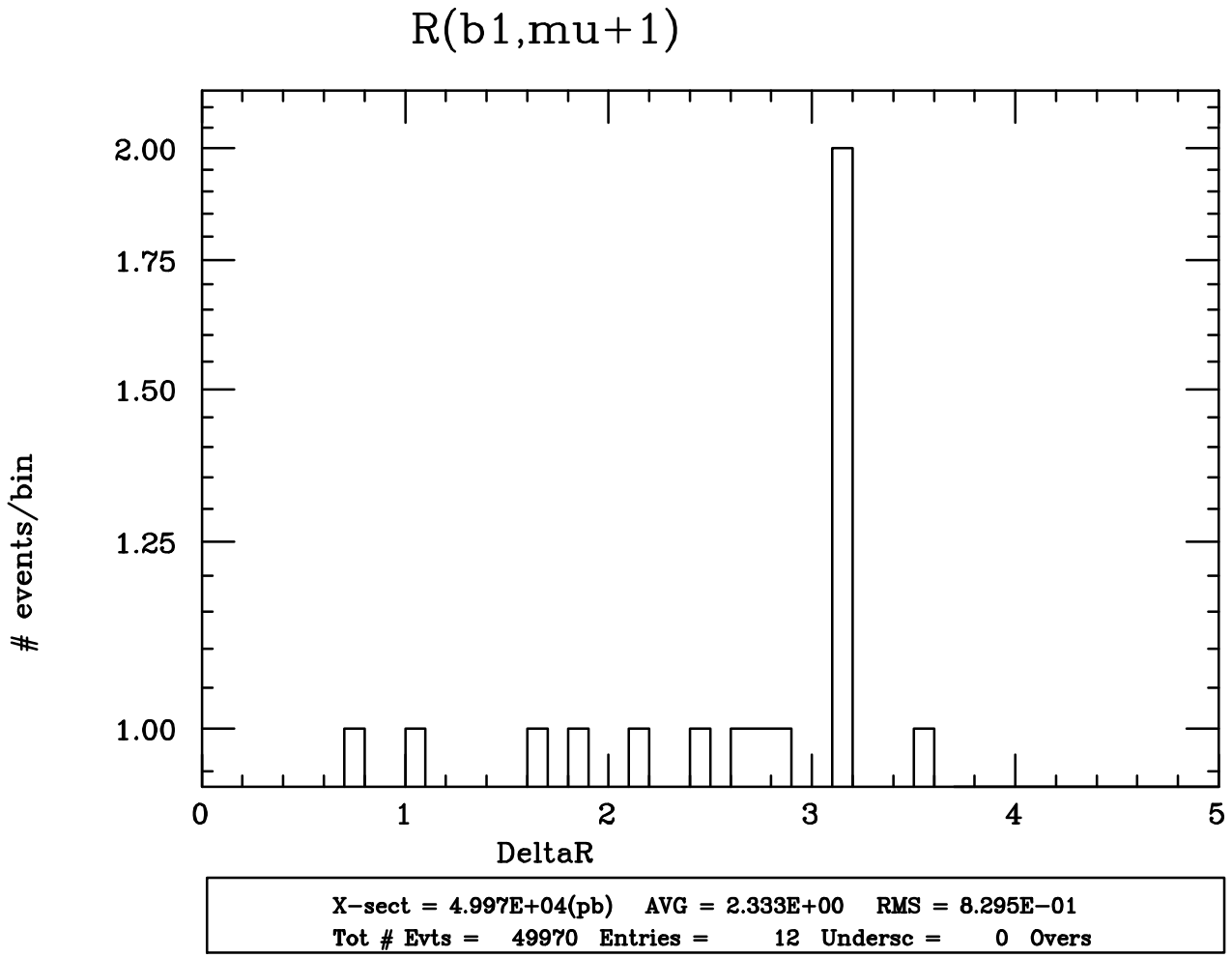

R(jet3,mu+1)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
1
2
3
4
5
DeltaR
X-sect = 4.997E+04(pb) AVG = 1.600E+00 RMS = 8.221E-01
Tot # Evts = 49970 Entries = 6 Undersc = 0 Overs

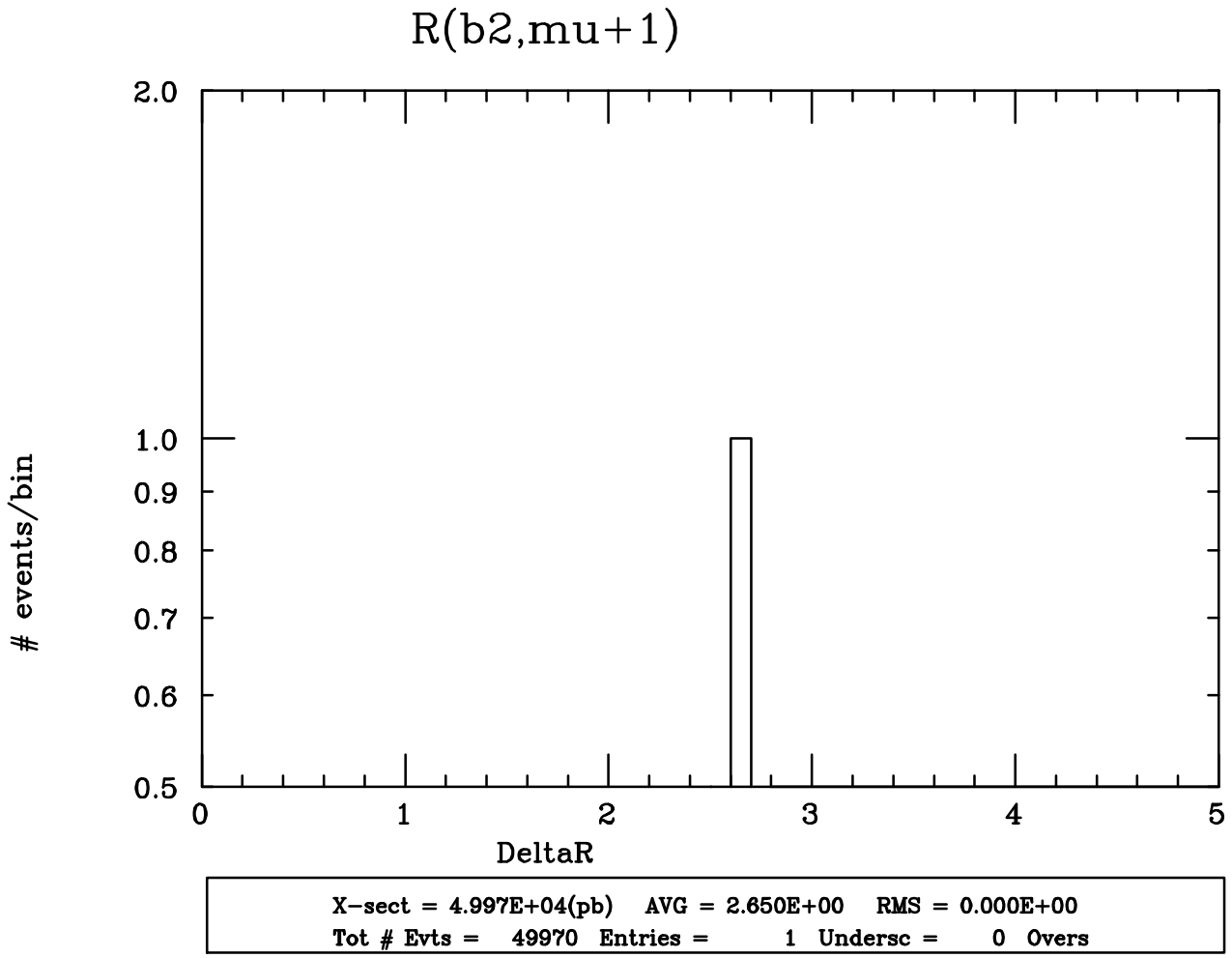

R(jet1,mu−1)
100
50
10
5
events/bin
0
1
2
3
4
5
DeltaR
X−sect = 4.997E+04(pb) AVG = 2.514E+00 RMS = 9.917E−01
Tot # Evts = 49970 Entries = 1111 Undersc = 0 Overs

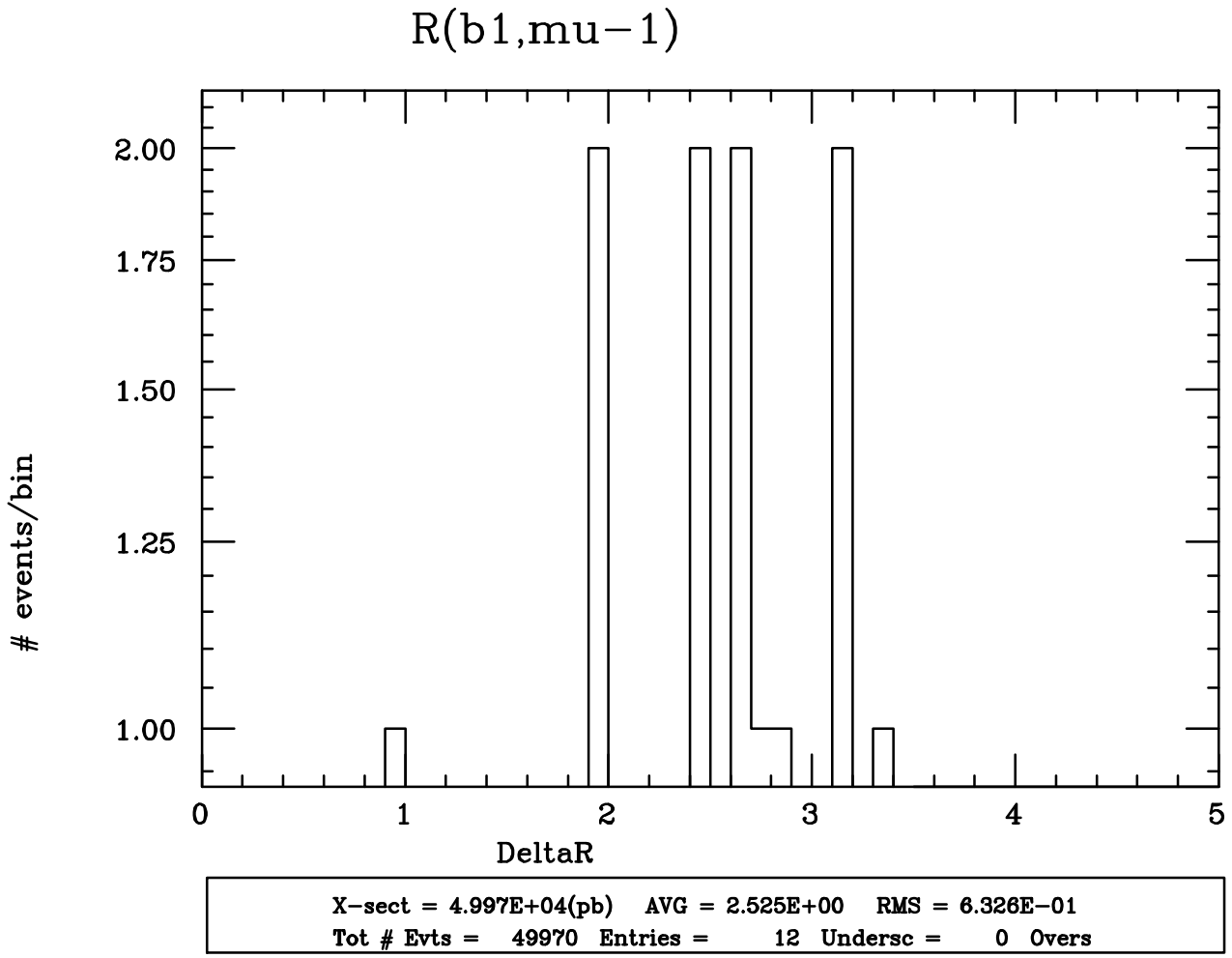

R(jet2,mu−1)
# events/bin
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.9
0
1
2
3
4
5
DeltaR
X−sect = 4.997E+04(pb) AVG = 2.308E+00 RMS = 1.101E+00
Tot # Evts = 49970 Entries = 90 Undersc = 0 Overs

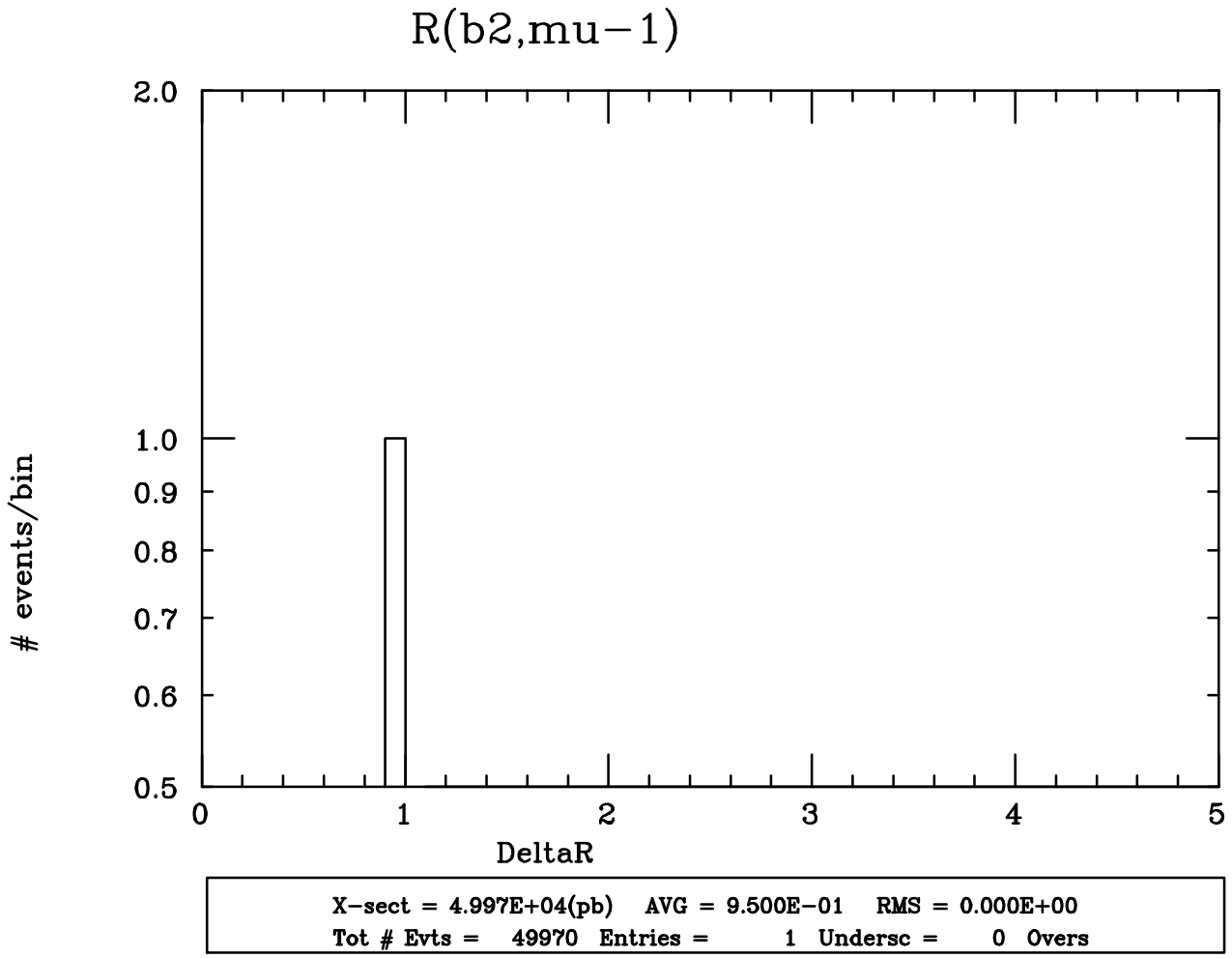

R(jet3,mu−1)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
1
2
3
4
5
DeltaR
X−sect = 4.997E+04(pb) AVG = 2.467E+00 RMS = 7.988E−01
Tot # Evts = 49970 Entries = 6 Undersc = 0 Overs

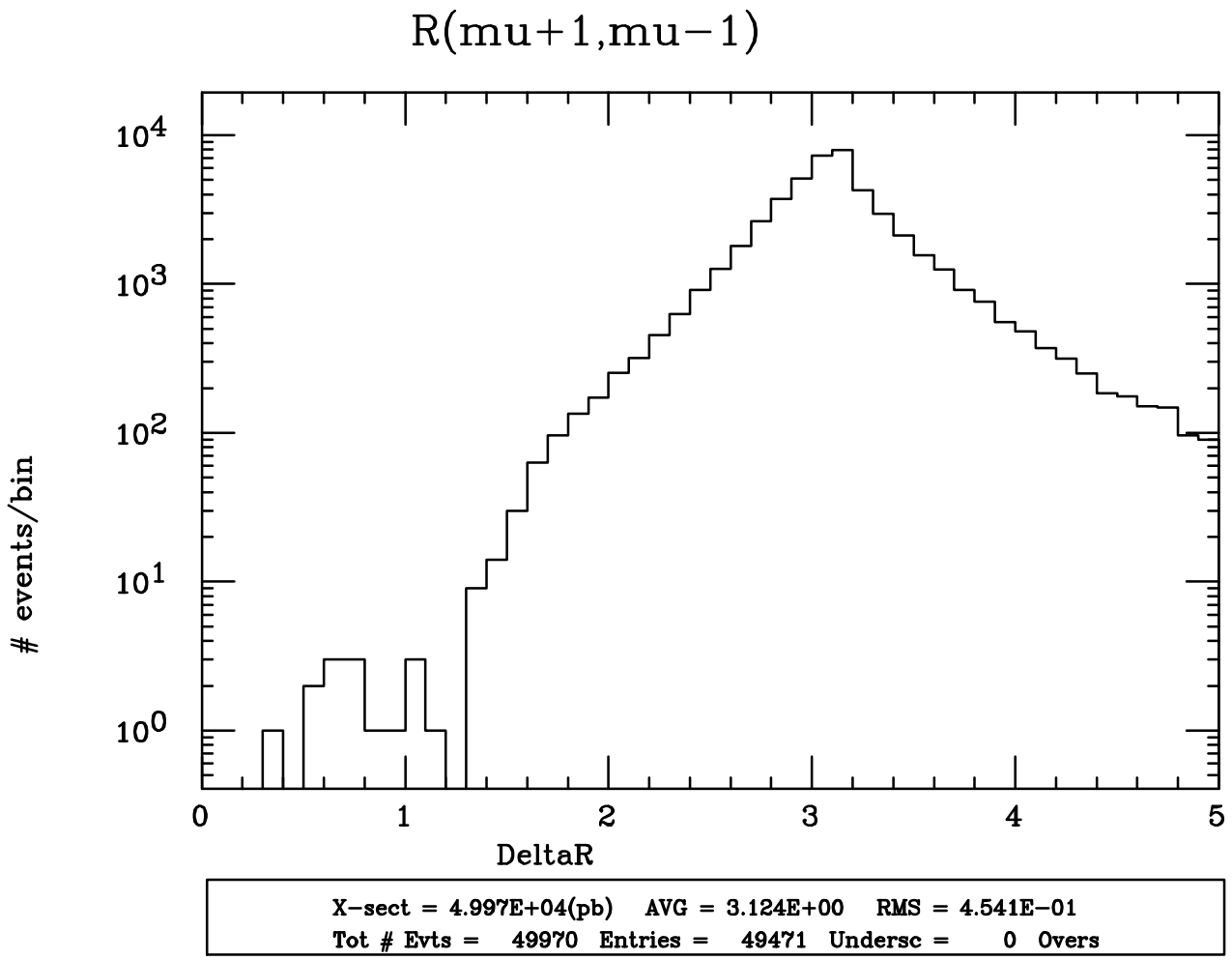

R(b1,b2)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
1
2
3
4
5
DeltaR
X-sect = 4.997E+04(pb) AVG = 2.050E+00 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs

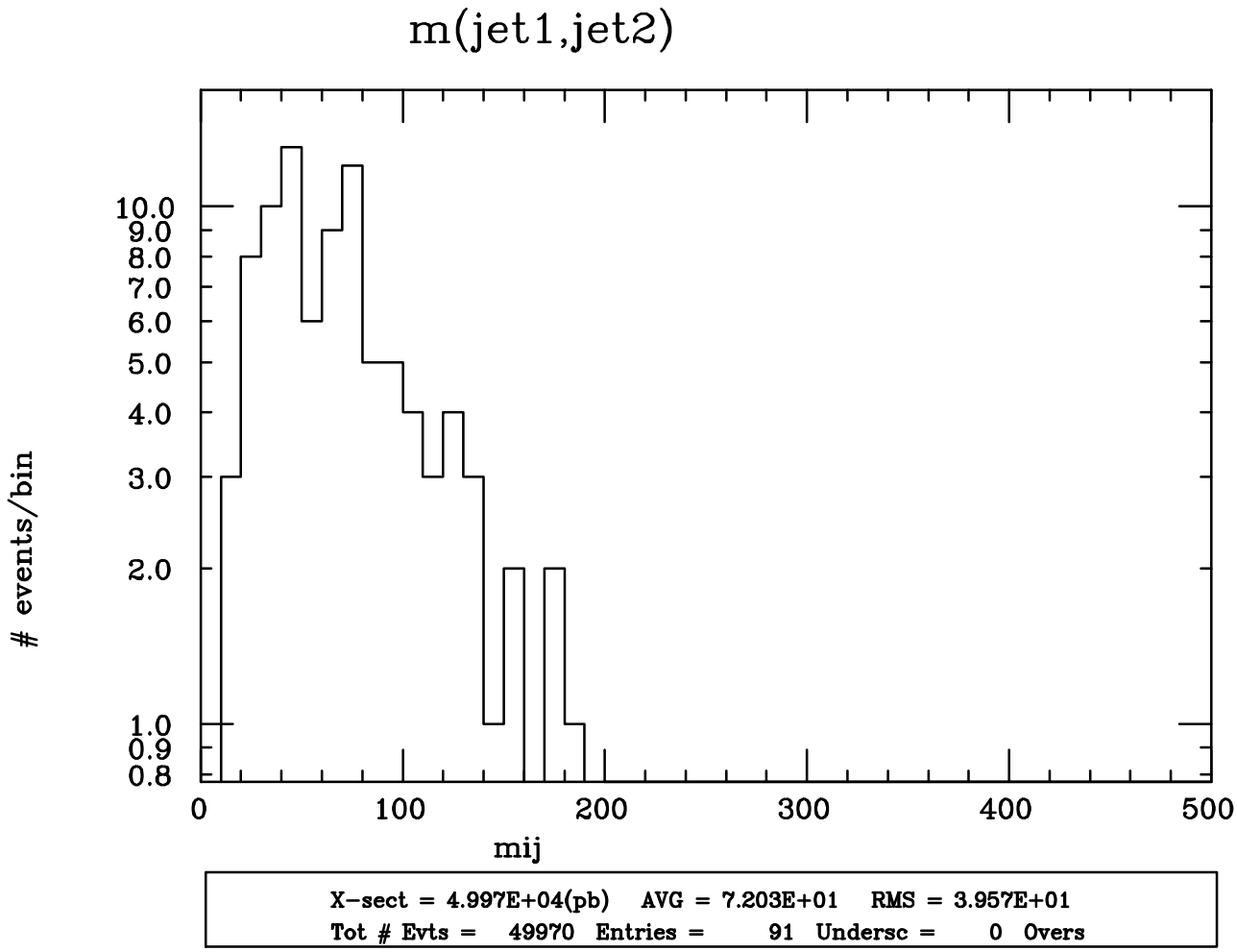

R(b1,mu+1)
# events/bin
2.00
1.75
1.50
1.25
1.00
0
1
2
3
4
5
DeltaR
X-sect = 4.997E+04(pb) AVG = 2.333E+00 RMS = 8.295E-01
Tot # Evts = 49970 Entries = 12 Undersc = 0 Overs

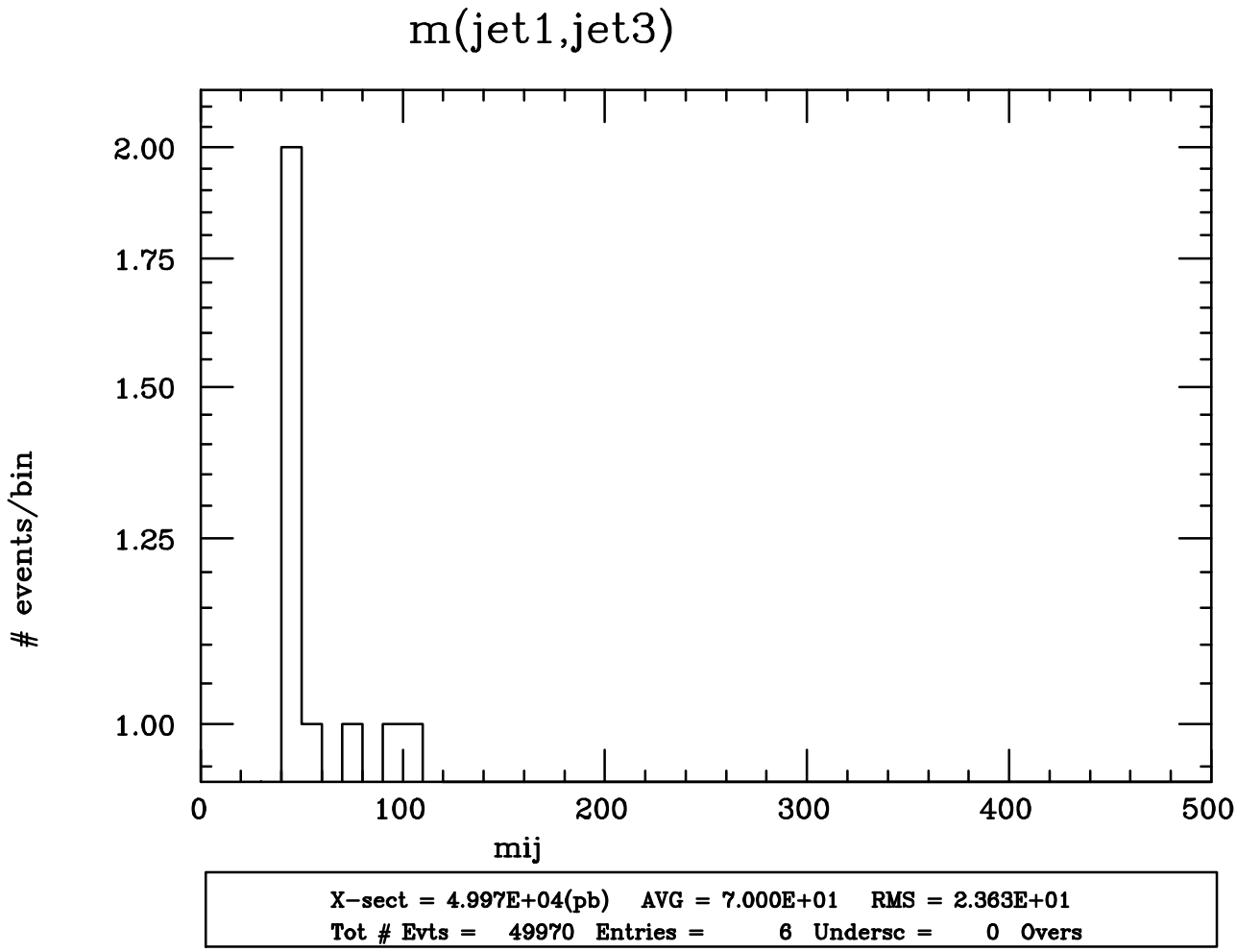

R(b2,mu+1)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
1
2
3
4
5
DeltaR
X-sect = 4.997E+04(pb) AVG = 2.650E+00 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs

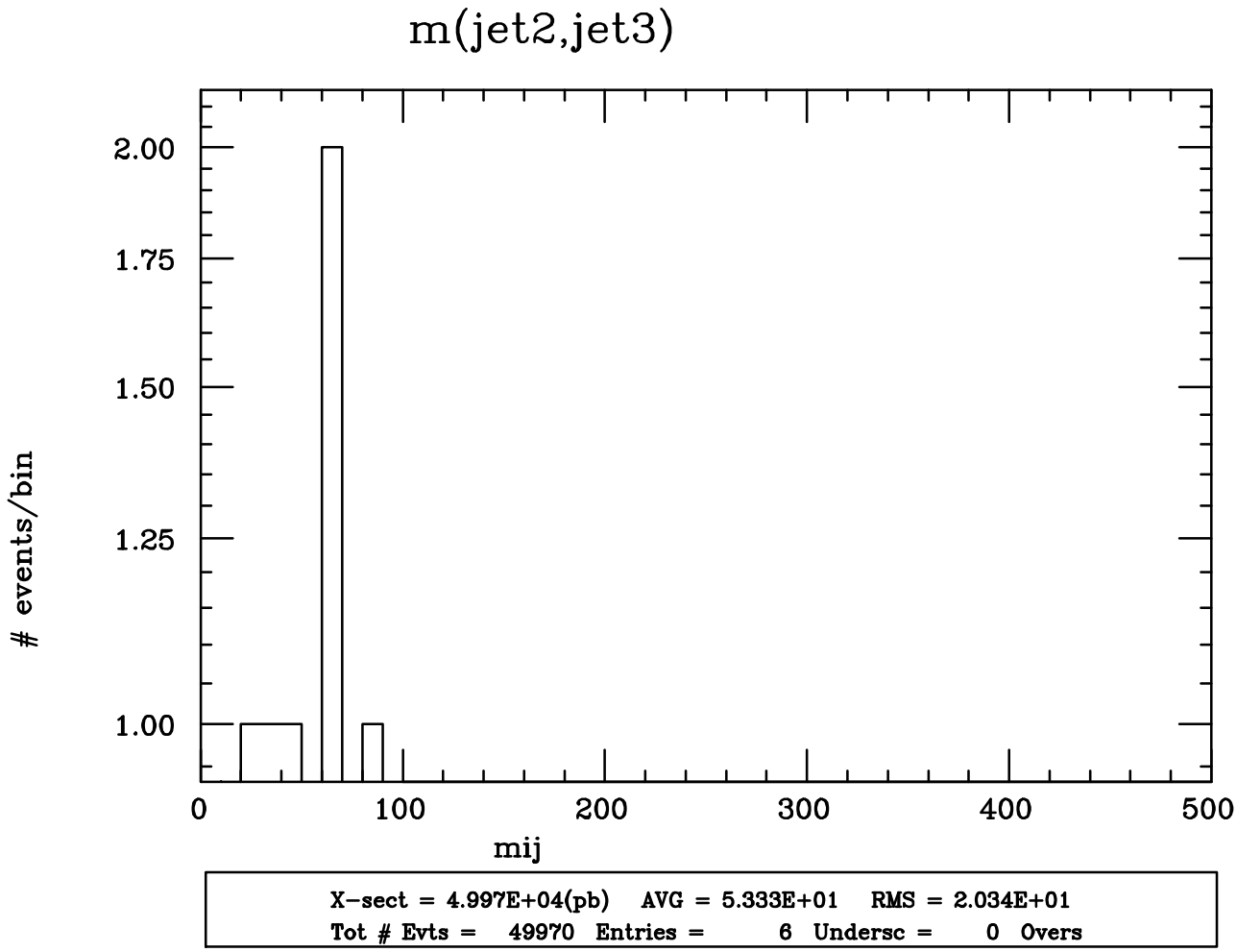

R(b1,mu−1)
# events/bin
2.00
1.75
1.50
1.25
1.00
0
1
2
3
4
5
DeltaR
X−sect = 4.997E+04(pb) AVG = 2.525E+00 RMS = 6.326E−01
Tot # Evts = 49970 Entries = 12 Undersc = 0 Overs

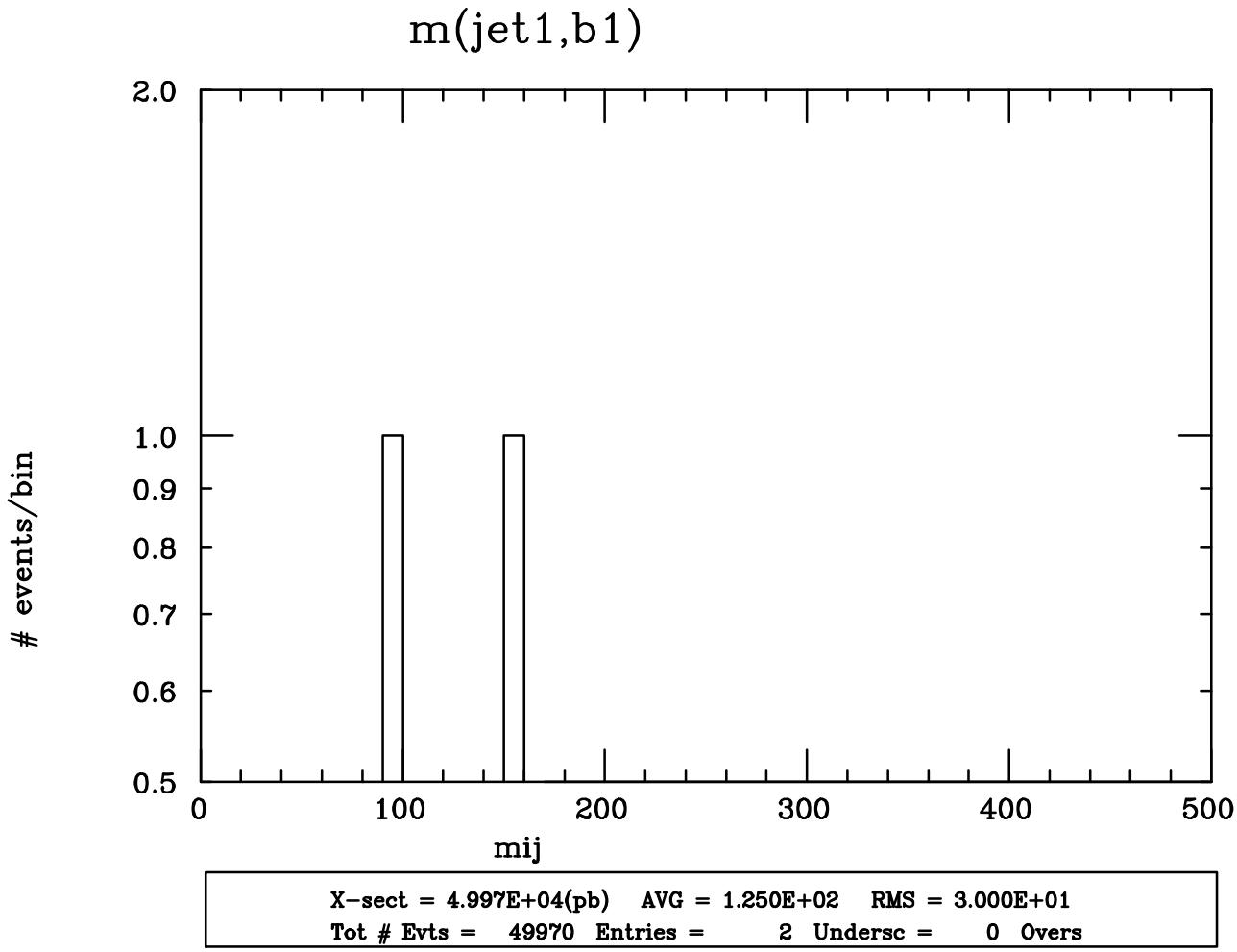

R(b2,mu−1)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
1
2
3
4
5
DeltaR
X−sect = 4.997E+04(pb) AVG = 9.500E−01 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs

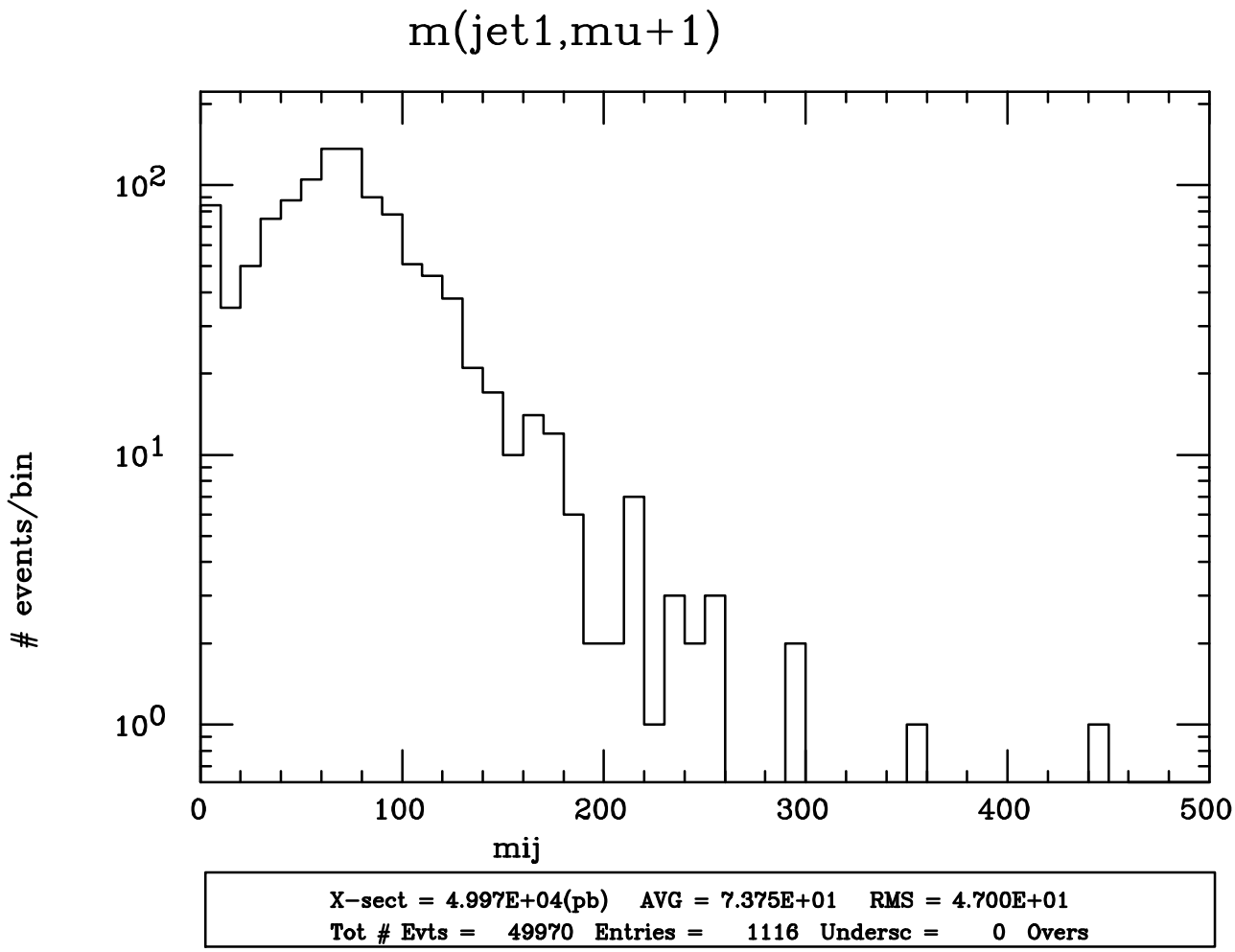

R(mu+1,mu−1)
# events/bin
10^4
10^3
10^2
10^1
10^0
0
1
2
3
4
5
DeltaR
X−sect = 4.997E+04(pb) AVG = 3.124E+00 RMS = 4.541E−01
Tot # Evts = 49970 Entries = 49471 Undersc = 0 Overs

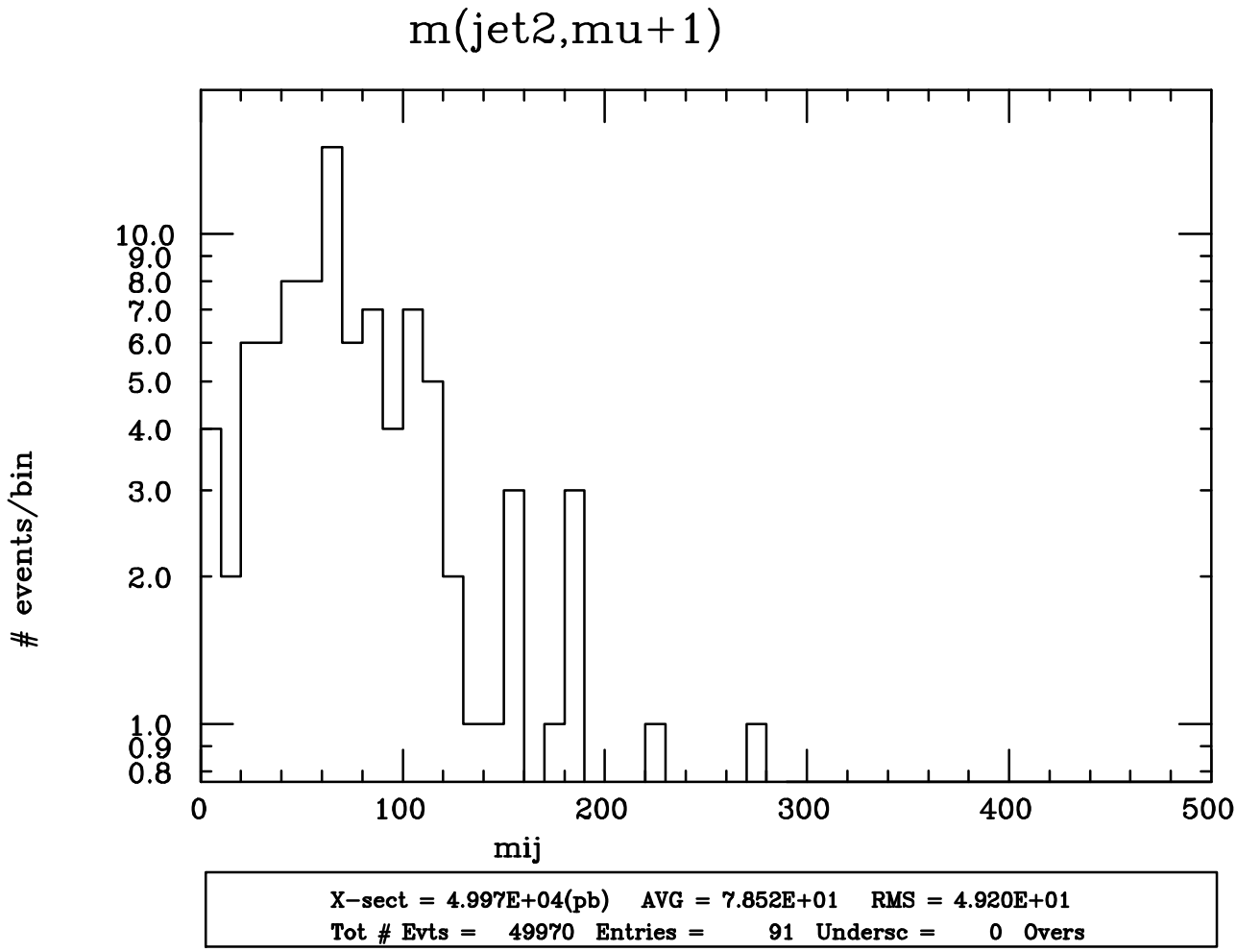

m(jet1,jet2)
# events/bin
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.9
0.8
0
100
200
300
400
500
mij
X-sect = 4.997E+04(pb) AVG = 7.203E+01 RMS = 3.957E+01
Tot # Evts = 49970 Entries = 91 Undersc = 0 Overs

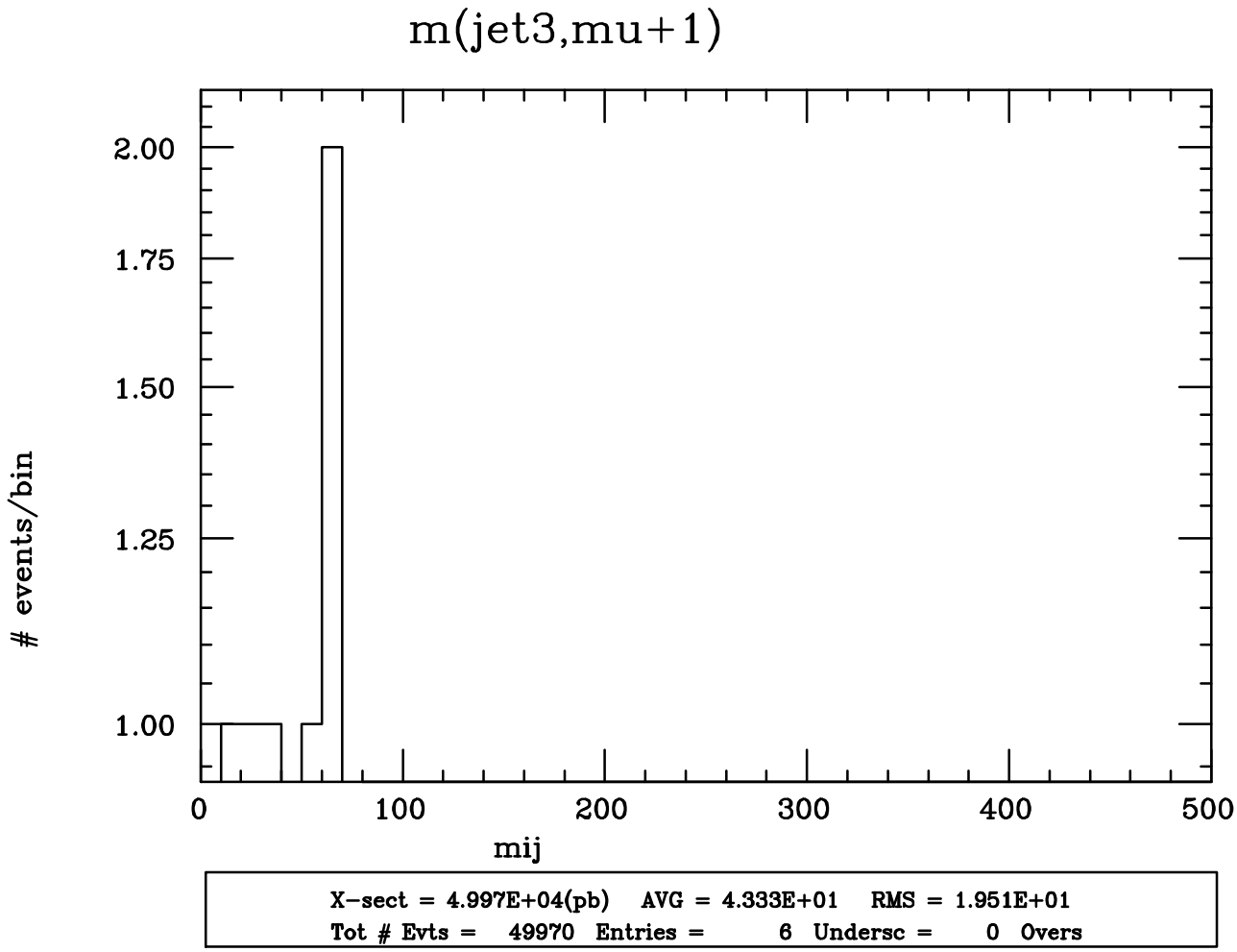

m(jet1,jet3)
# events/bin
2.00
1.75
1.50
1.25
1.00
0
100
200
300
400
500
mij
X-sect = 4.997E+04(pb) AVG = 7.000E+01 RMS = 2.363E+01
Tot # Evts = 49970 Entries = 6 Undersc = 0 Overs

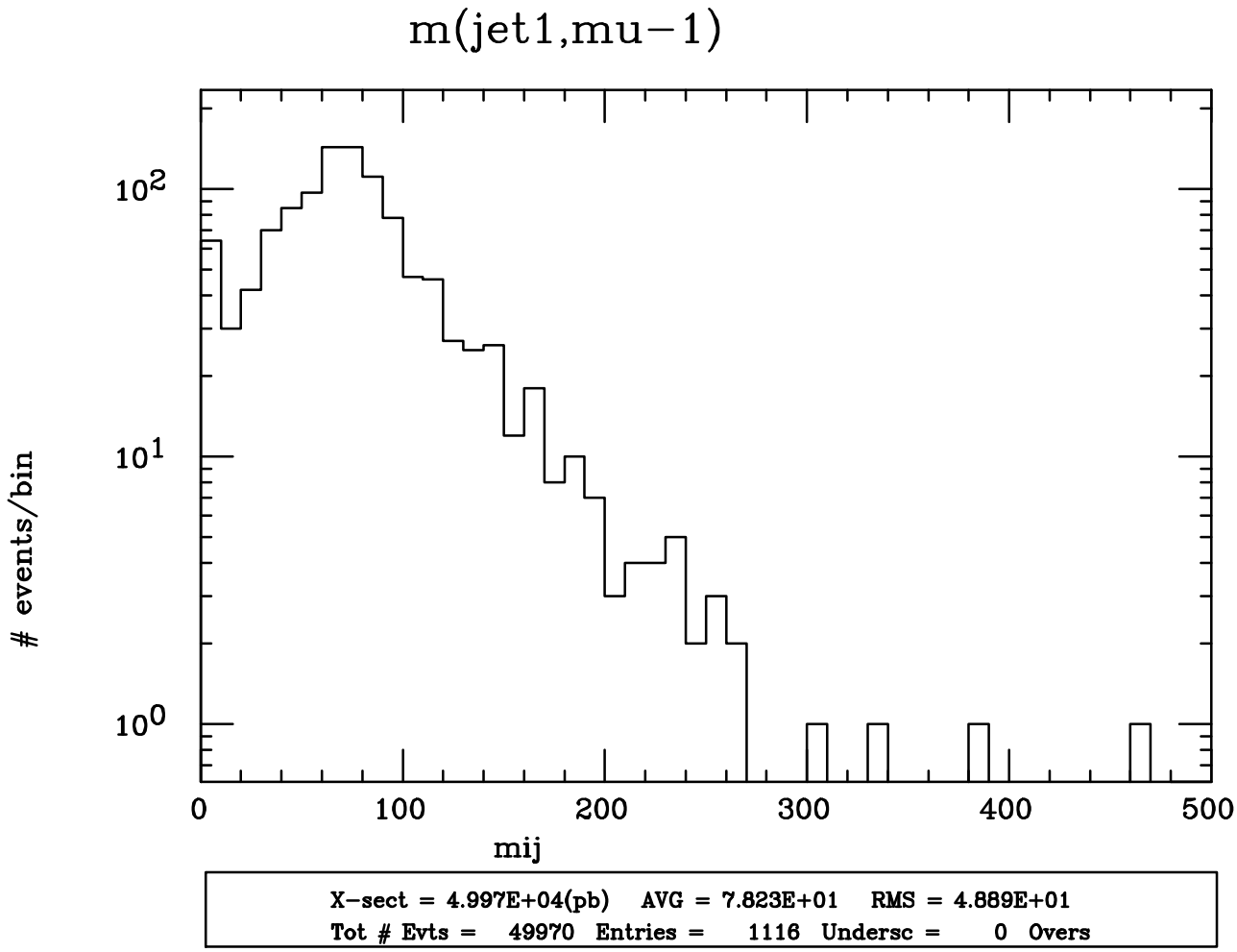

m(jet2,jet3)
# events/bin
2.00
1.75
1.50
1.25
1.00
0
100
200
300
400
500
mij
X-sect = 4.997E+04(pb) AVG = 5.333E+01 RMS = 2.034E+01
Tot # Evts = 49970 Entries = 6 Undersc = 0 Overs

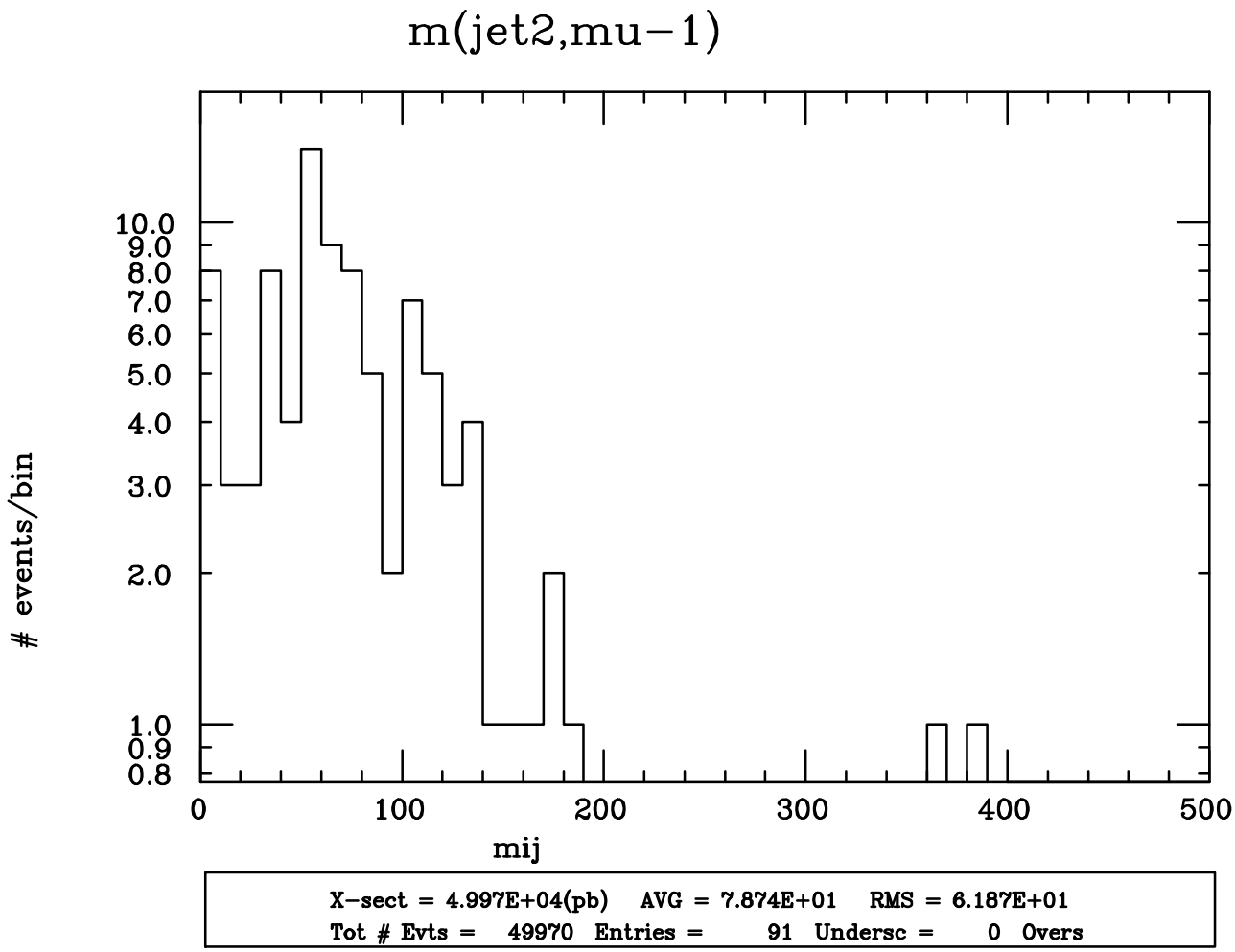

m(jet1,b1)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
100
200
300
400
500
mij
X-sect = 4.997E+04(pb) AVG = 1.250E+02 RMS = 3.000E+01
Tot # Evts = 49970 Entries = 2 Undersc = 0 Overs

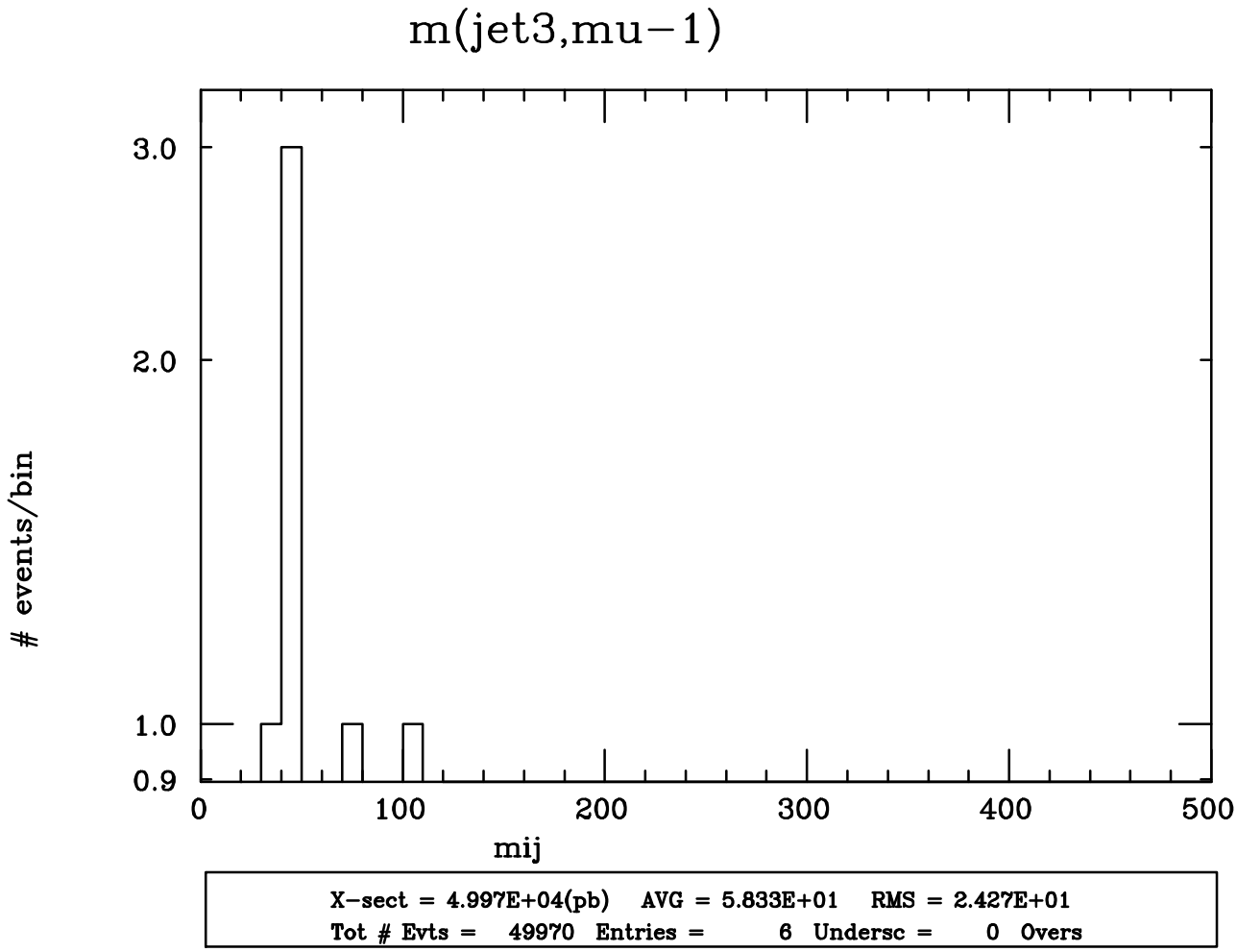

m(jet1,mu+1)
# events/bin
10^2
10^1
10^0
0
100
200
300
400
500
mij
X-sect = 4.997E+04(pb) AVG = 7.375E+01 RMS = 4.700E+01
Tot # Evts = 49970 Entries = 1116 Undersc = 0 Overs

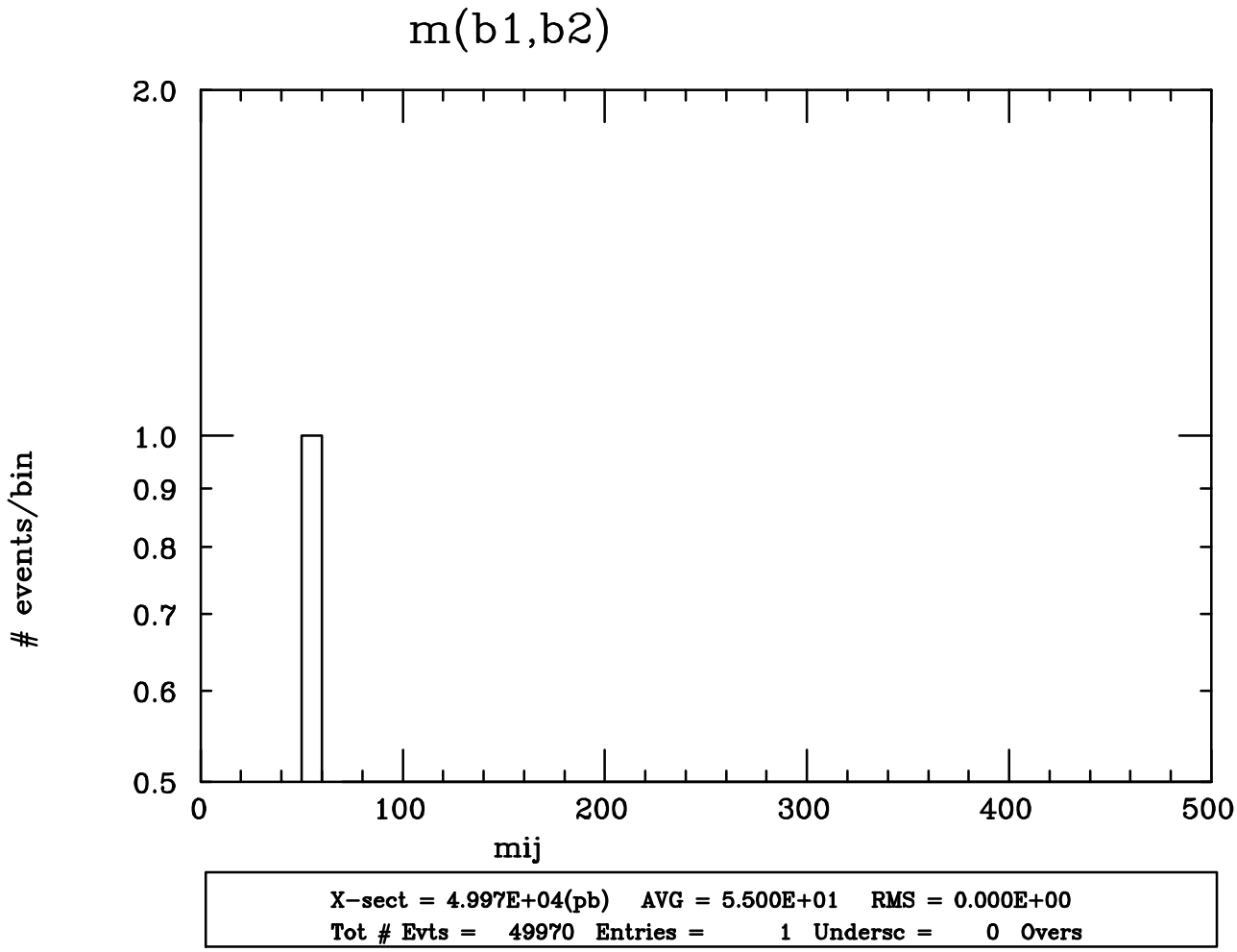

m(jet2,mu+1)
# events/bin
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.9
0.8
0
100
200
300
400
500
mij
X-sect = 4.997E+04(pb) AVG = 7.852E+01 RMS = 4.920E+01
Tot # Evts = 49970 Entries = 91 Undersc = 0 Overs

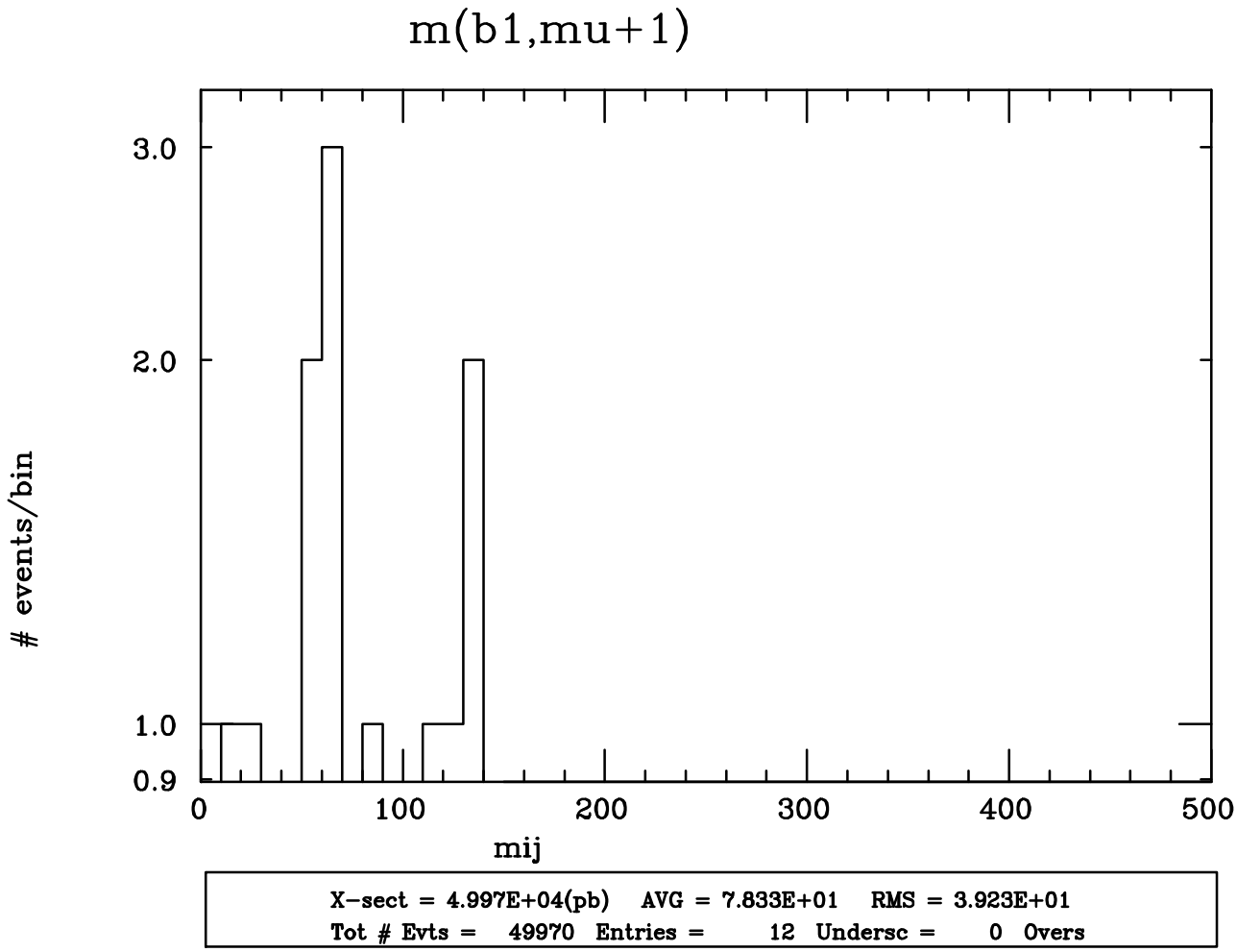

m(jet3,mu+1)
# events/bin
2.00
1.75
1.50
1.25
1.00
0
100
200
300
400
500
mij
X-sect = 4.997E+04(pb) AVG = 4.333E+01 RMS = 1.951E+01
Tot # Evts = 49970 Entries = 6 Undersc = 0 Overs

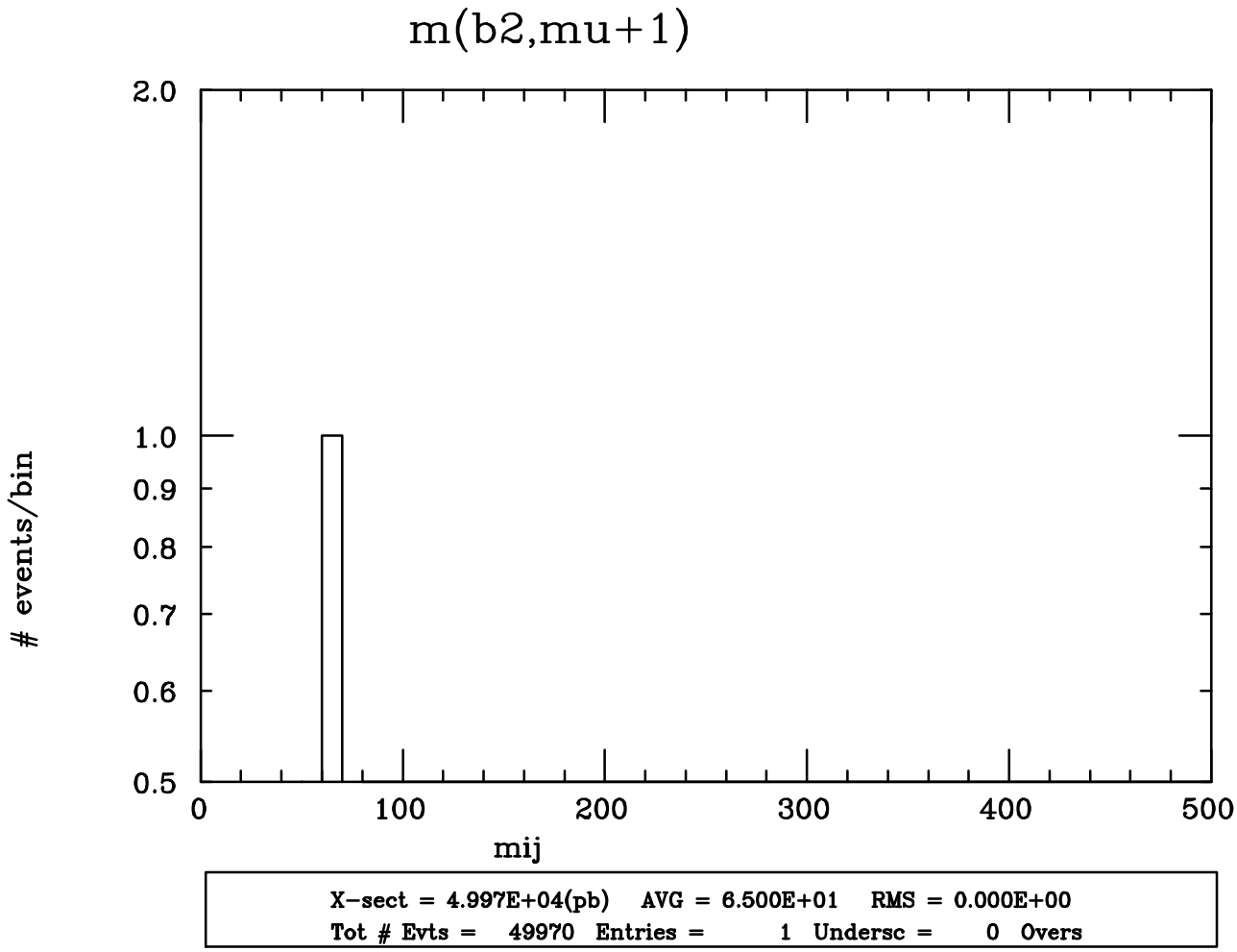

m(jet1,mu−1)
# events/bin
10^2
10^1
10^0
0
100
200
300
400
500
mij
X−sect = 4.997E+04(pb) AVG = 7.823E+01 RMS = 4.889E+01
Tot # Evts = 49970 Entries = 1116 Undersc = 0 Overs

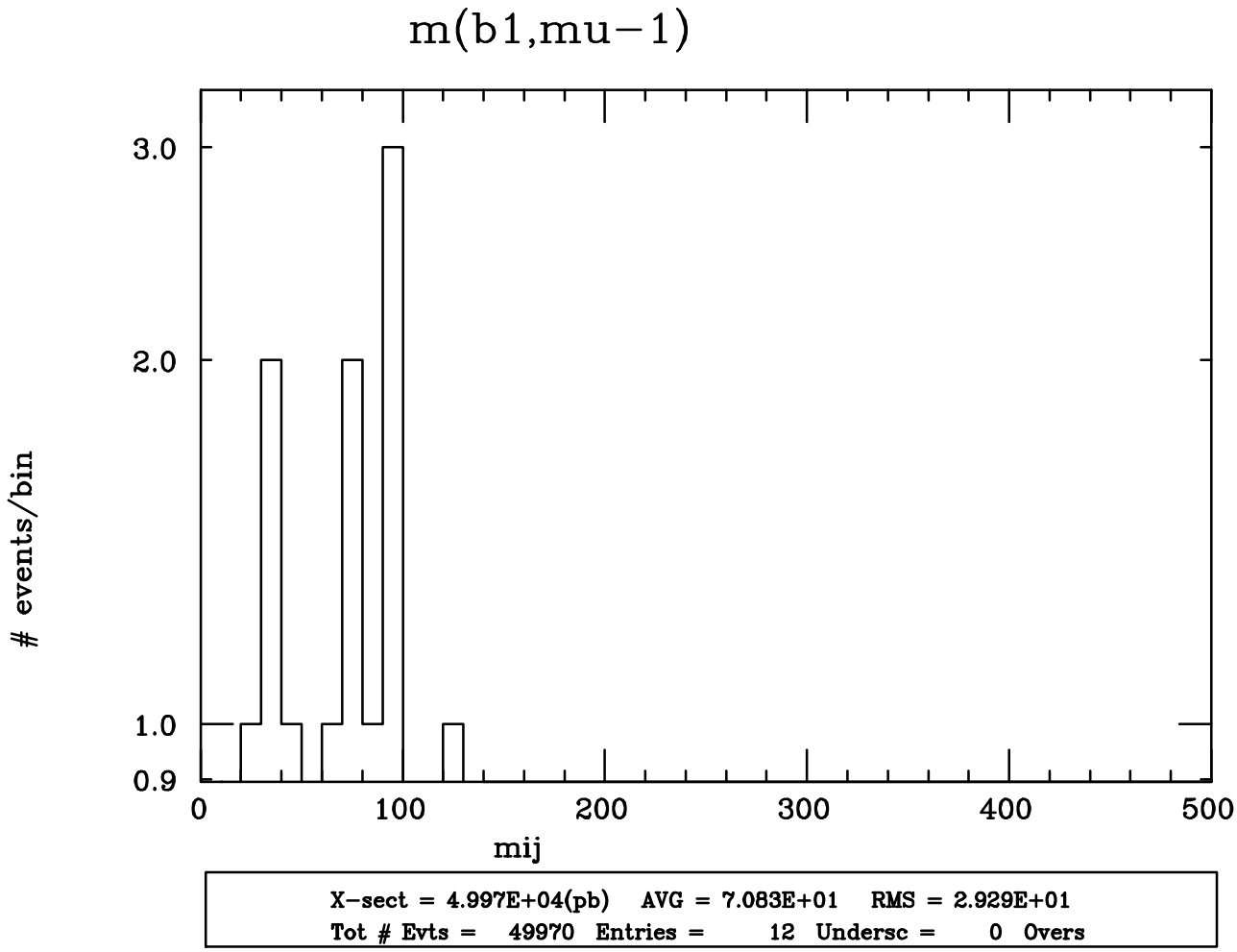

m(jet2,mu−1)
# events/bin
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.9
0.8
0
100
200
300
400
500
mij
X−sect = 4.997E+04(pb) AVG = 7.874E+01 RMS = 6.187E+01
Tot # Evts = 49970 Entries = 91 Undersc = 0 Overs

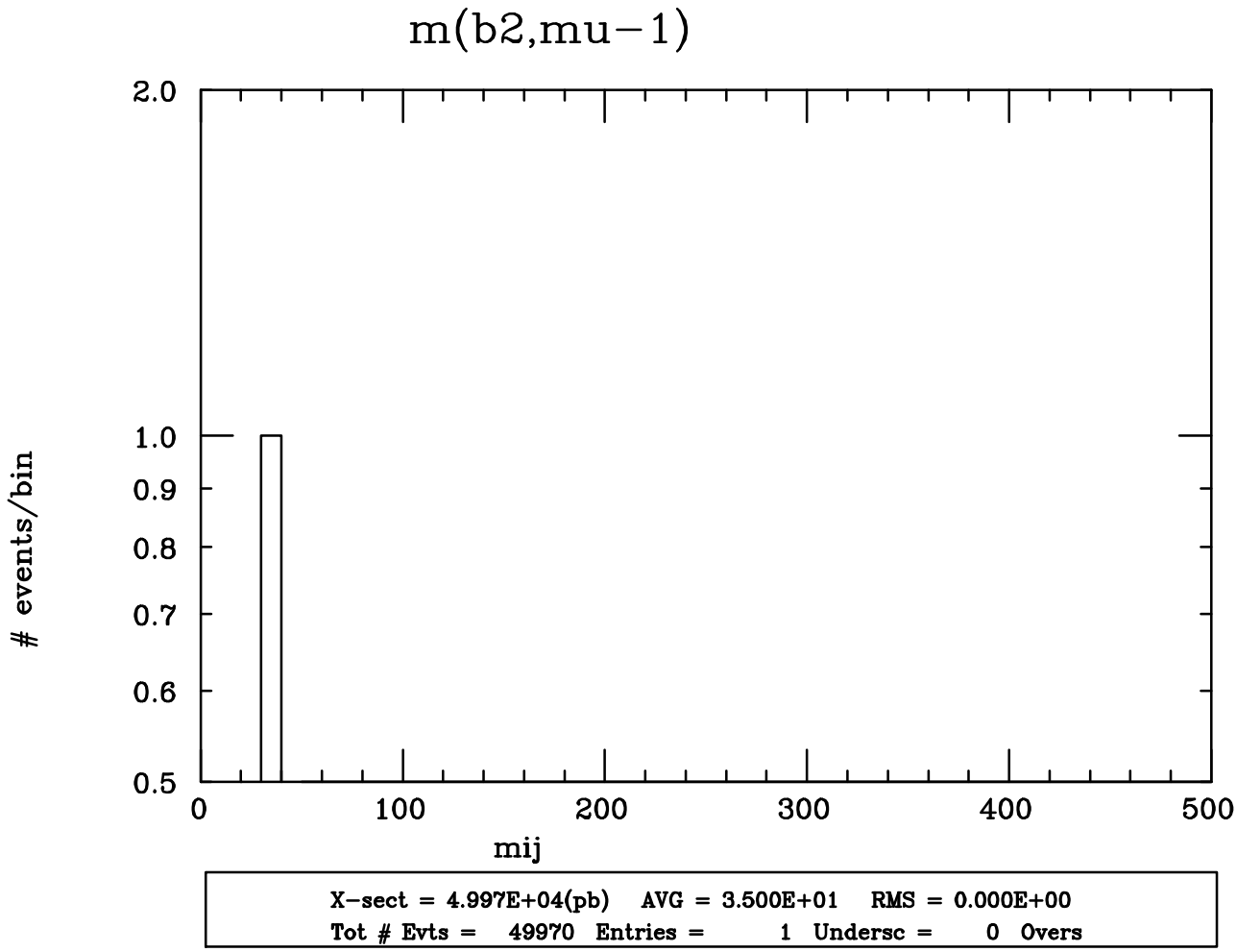

m(jet3,mu−1)
# events/bin
3.0
2.0
1.0
0.9
0
100
200
300
400
500
mij
X−sect = 4.997E+04(pb) AVG = 5.833E+01 RMS = 2.427E+01
Tot # Evts = 49970 Entries = 6 Undersc = 0 Overs

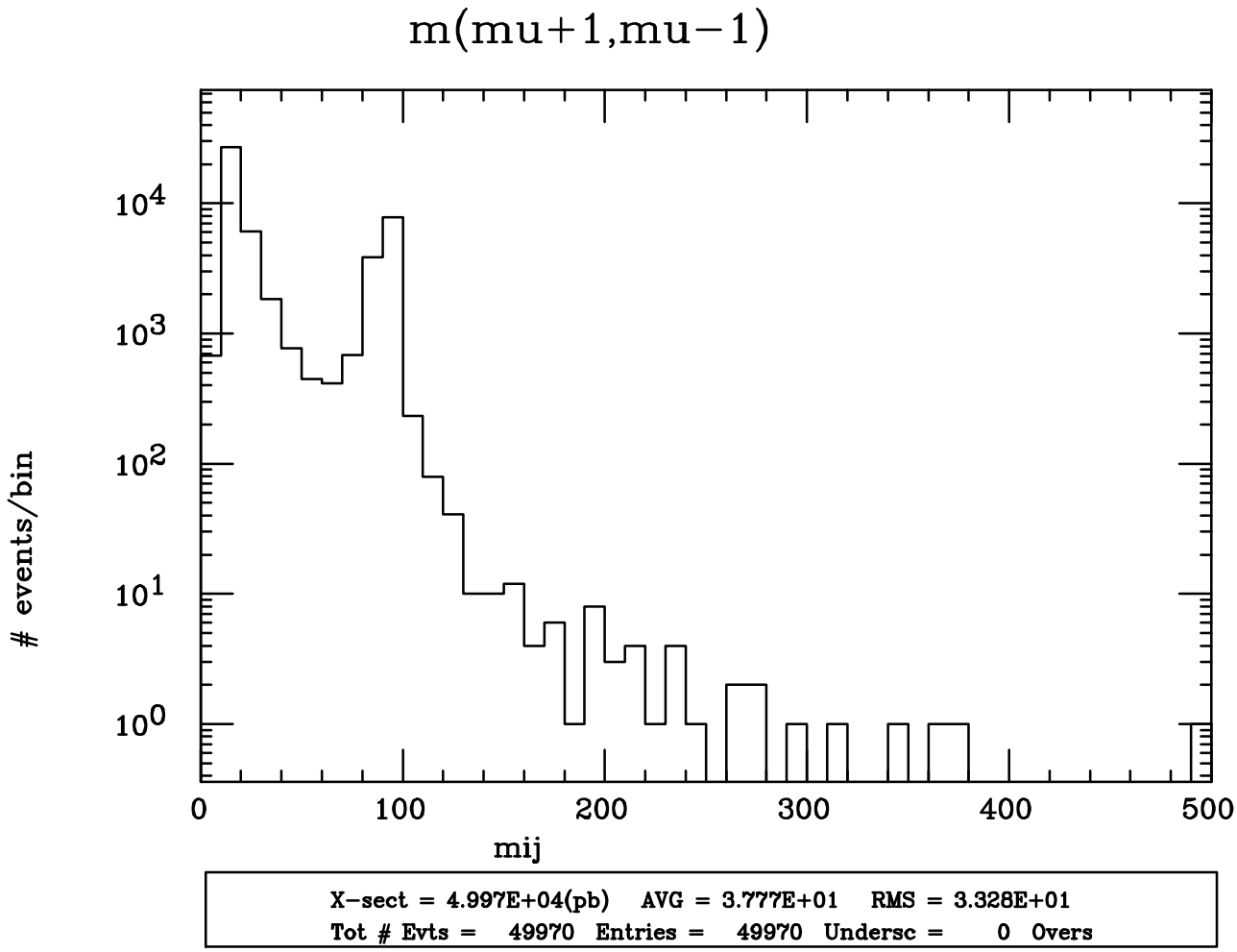

m(b1,b2)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
100
200
300
400
500
mij
X-sect = 4.997E+04(pb) AVG = 5.500E+01 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs

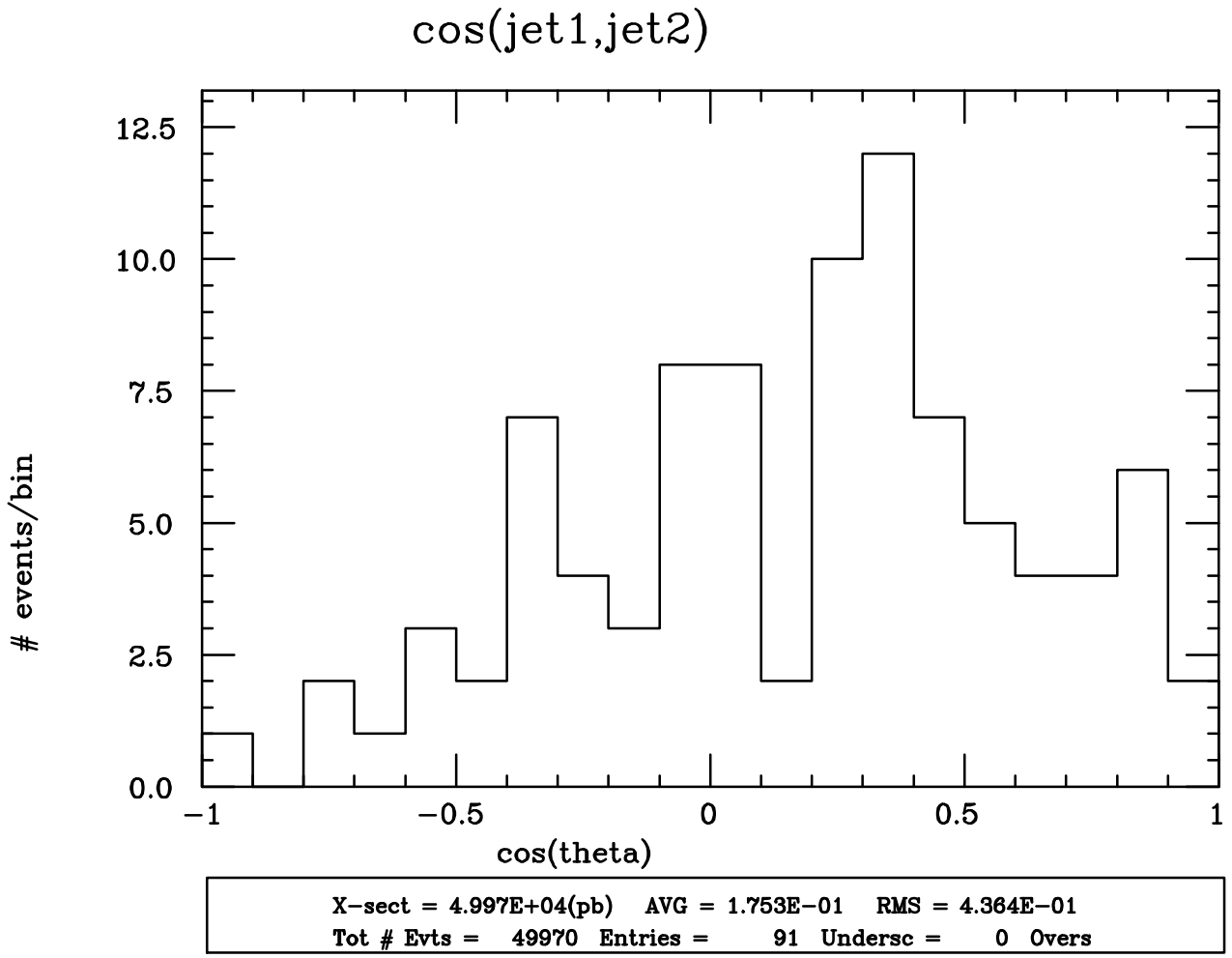

m(b1,mu+1)
# events/bin
3.0
2.0
1.0
0.9
0
100
200
300
400
500
mij
X-sect = 4.997E+04(pb) AVG = 7.833E+01 RMS = 3.923E+01
Tot # Evts = 49970 Entries = 12 Undersc = 0 Overs

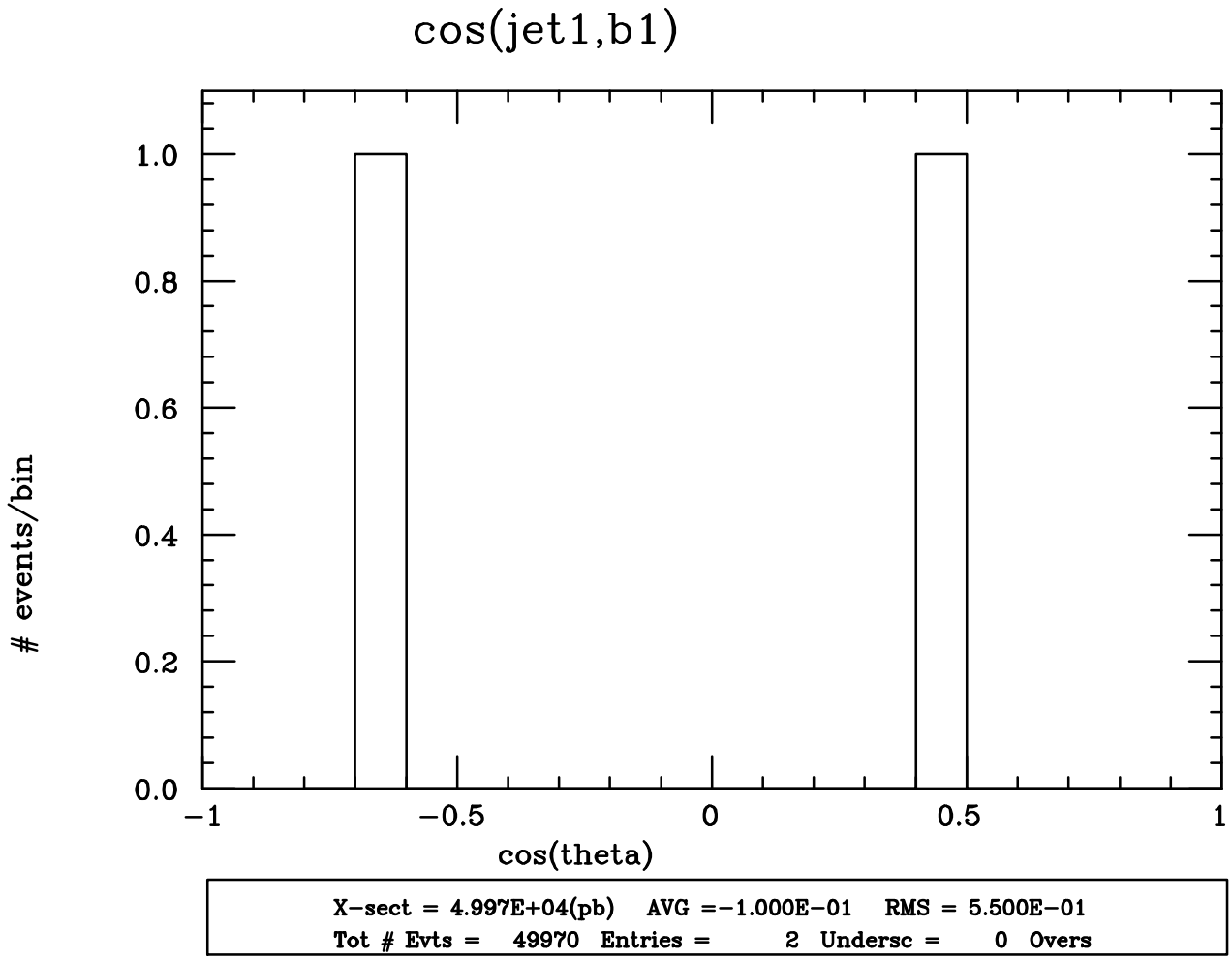

m(b2,mu+1)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
100
200
300
400
500
mij
X-sect = 4.997E+04(pb) AVG = 6.500E+01 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs

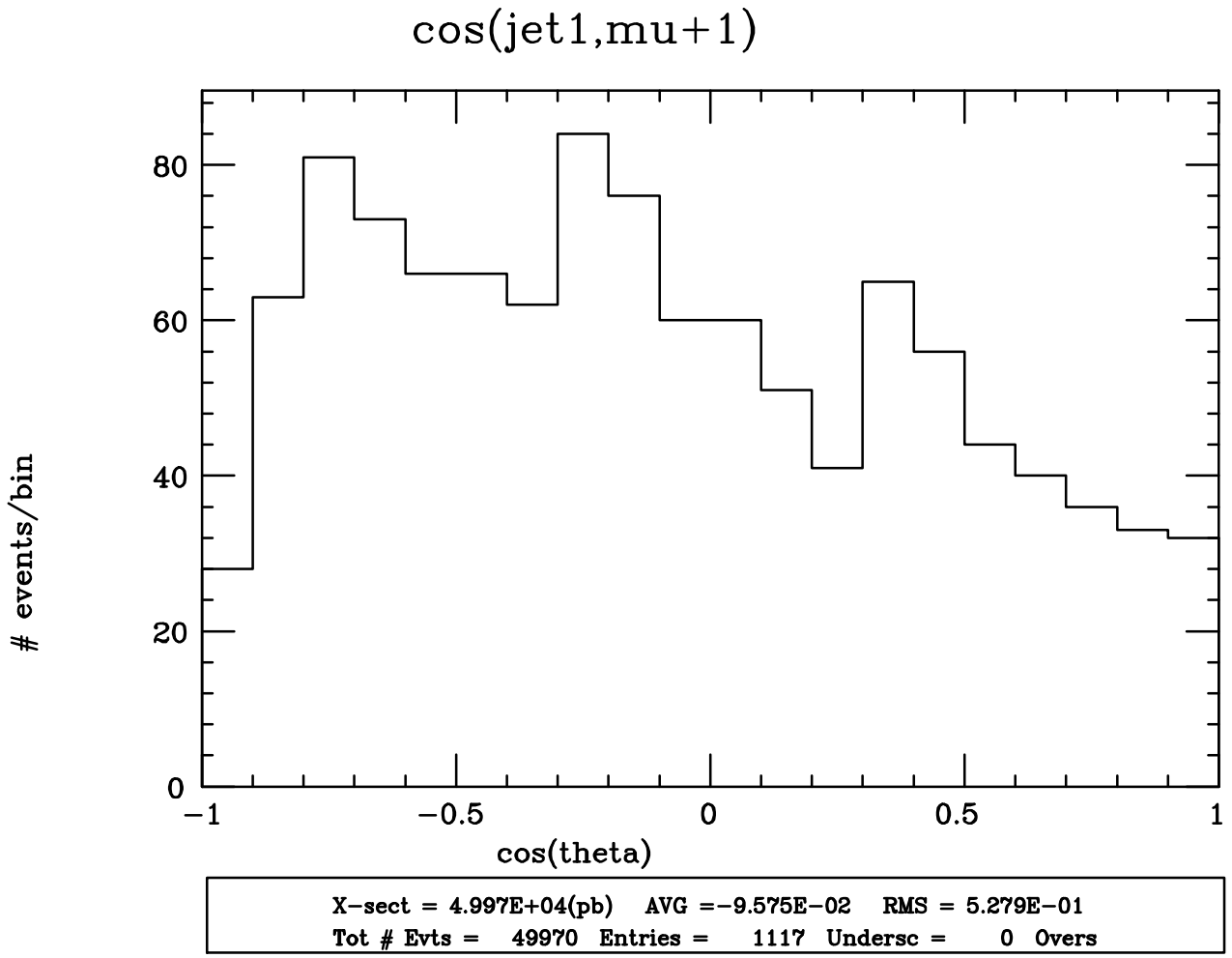

m(b1,mu−1)
# events/bin
3.0
2.0
1.0
0.9
0
100
200
300
400
500
mij
X−sect = 4.997E+04(pb) AVG = 7.083E+01 RMS = 2.929E+01
Tot # Evts = 49970 Entries = 12 Undersc = 0 Overs

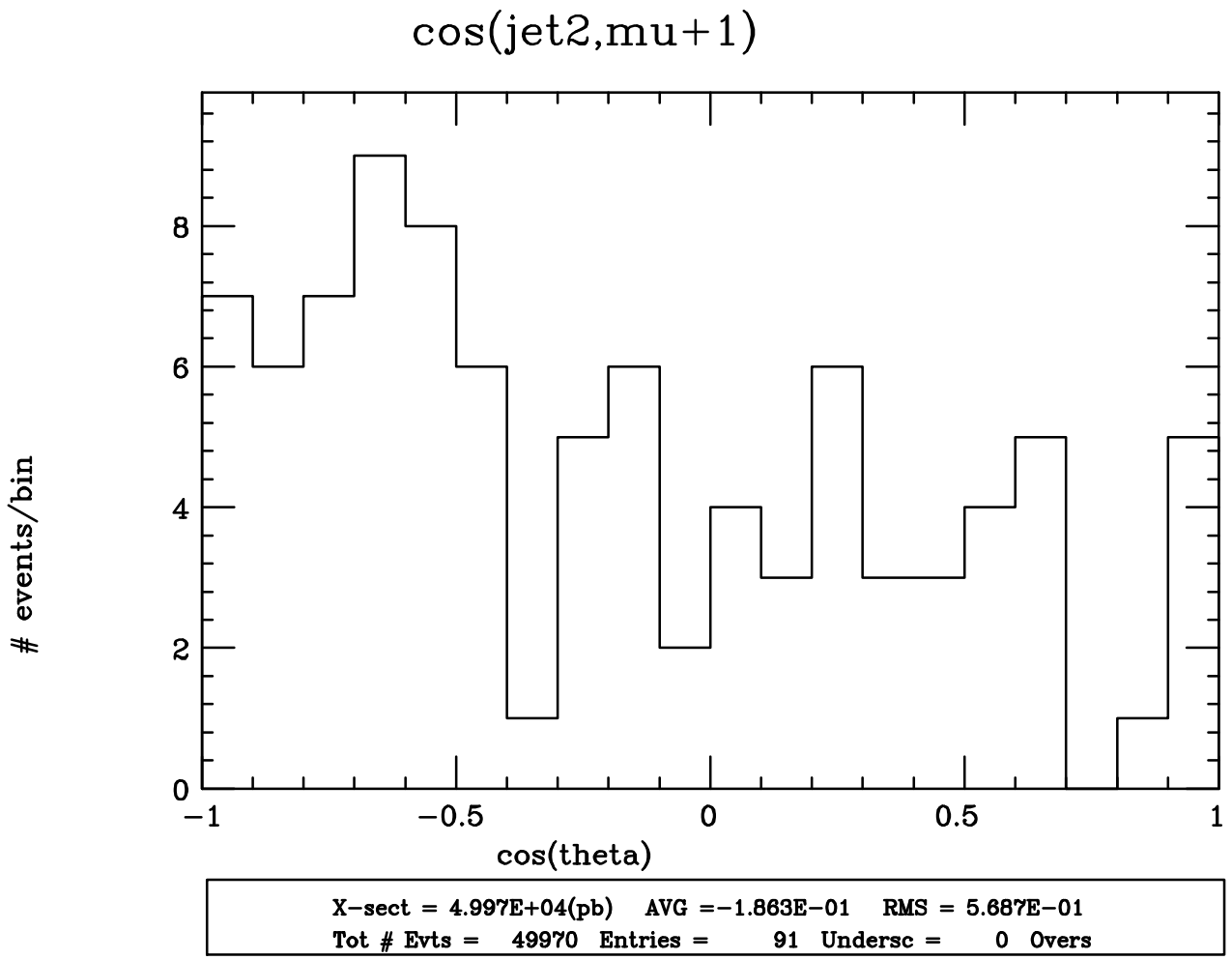

m(b2,mu−1)
2.0
1.0
0.9
0.8
0.7
0.6
0.5
events/bin
0
100
200
300
400
500
mij
X−sect = 4.997E+04(pb) AVG = 3.500E+01 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs

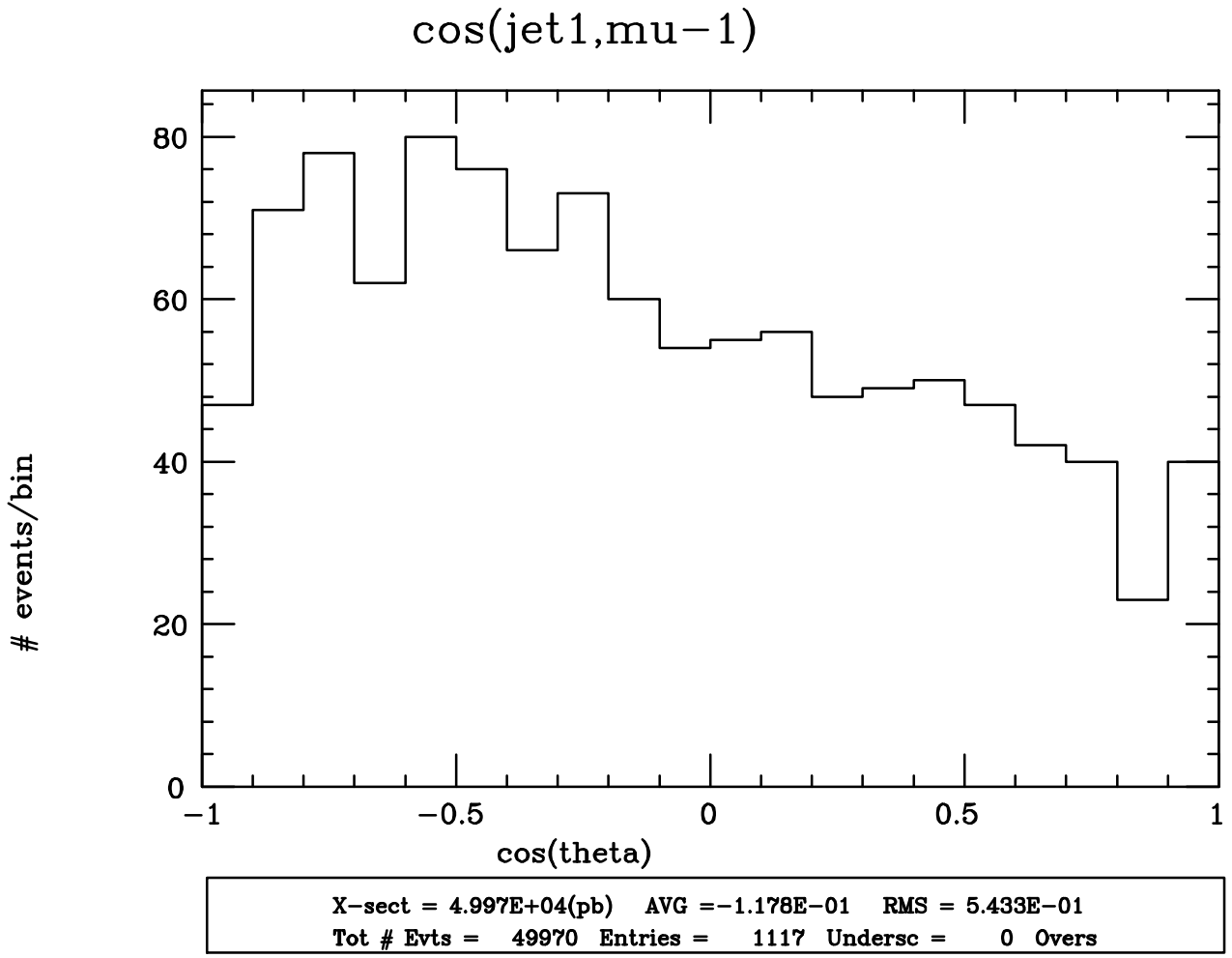

m(mu+1,mu−1)
# events/bin
10^4
10^3
10^2
10^1
10^0
0
100
200
300
400
500
mij
X−sect = 4.997E+04(pb) AVG = 3.777E+01 RMS = 3.328E+01
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs

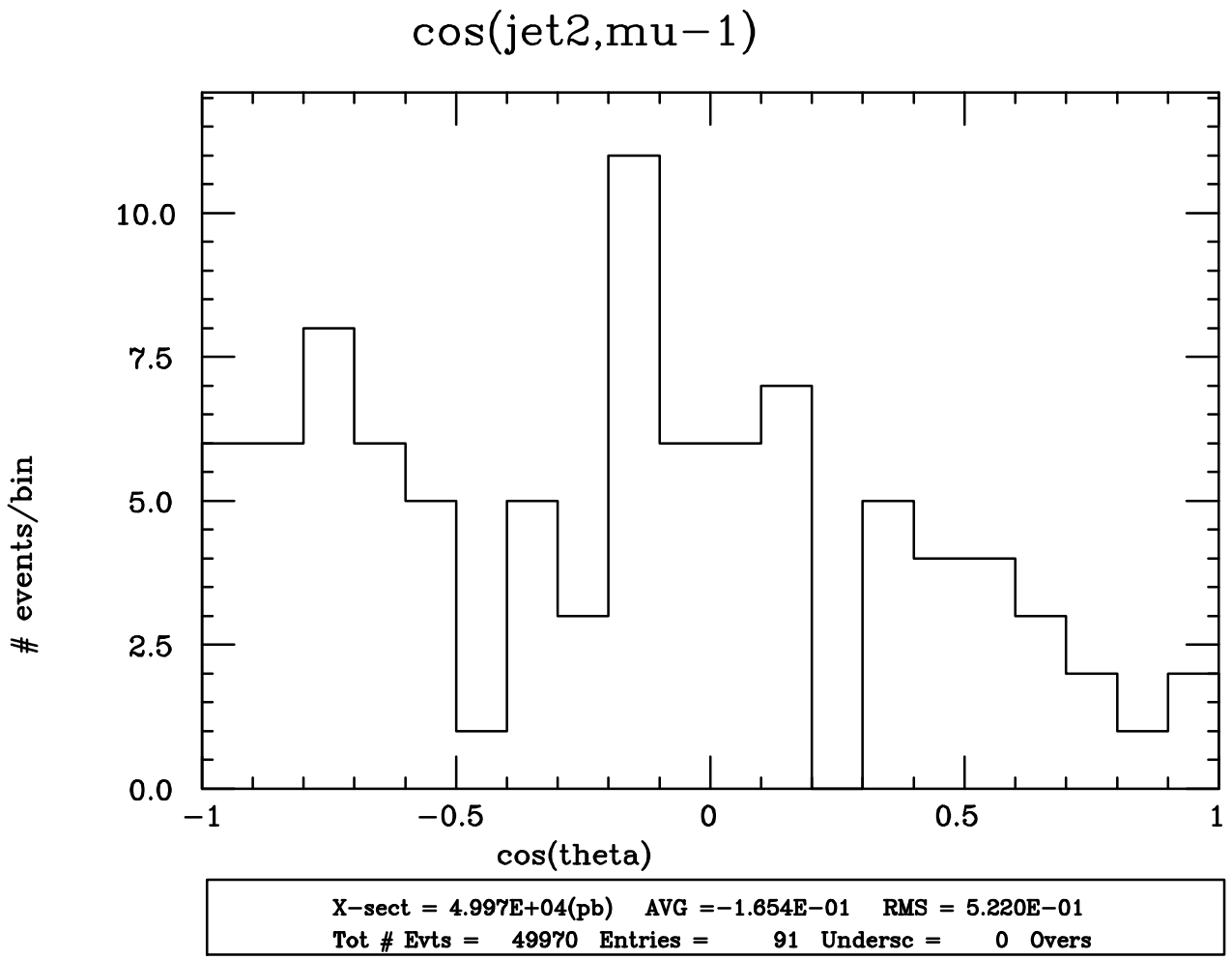

cos(jet1,jet2)
# events/bin
12.5
10.0
7.5
5.0
2.5
0.0
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG = 1.753E−01 RMS = 4.364E−01
Tot # Evts = 49970 Entries = 91 Undersc = 0 Overs

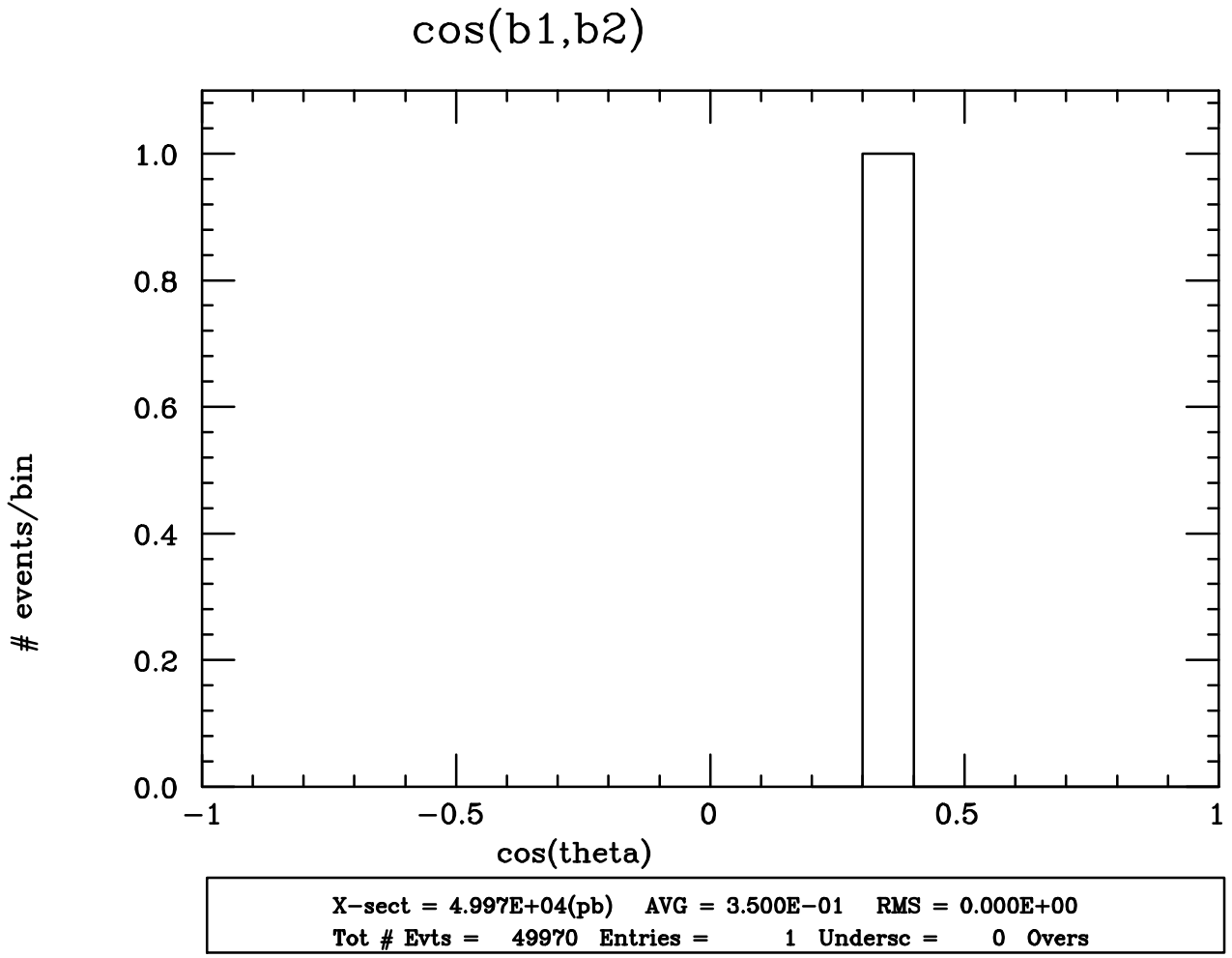

cos(jet1,b1)
# events/bin
1.0
0.8
0.6
0.4
0.2
0.0
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG =−1.000E−01 RMS = 5.500E−01
Tot # Evts = 49970 Entries = 2 Undersc = 0 Overs

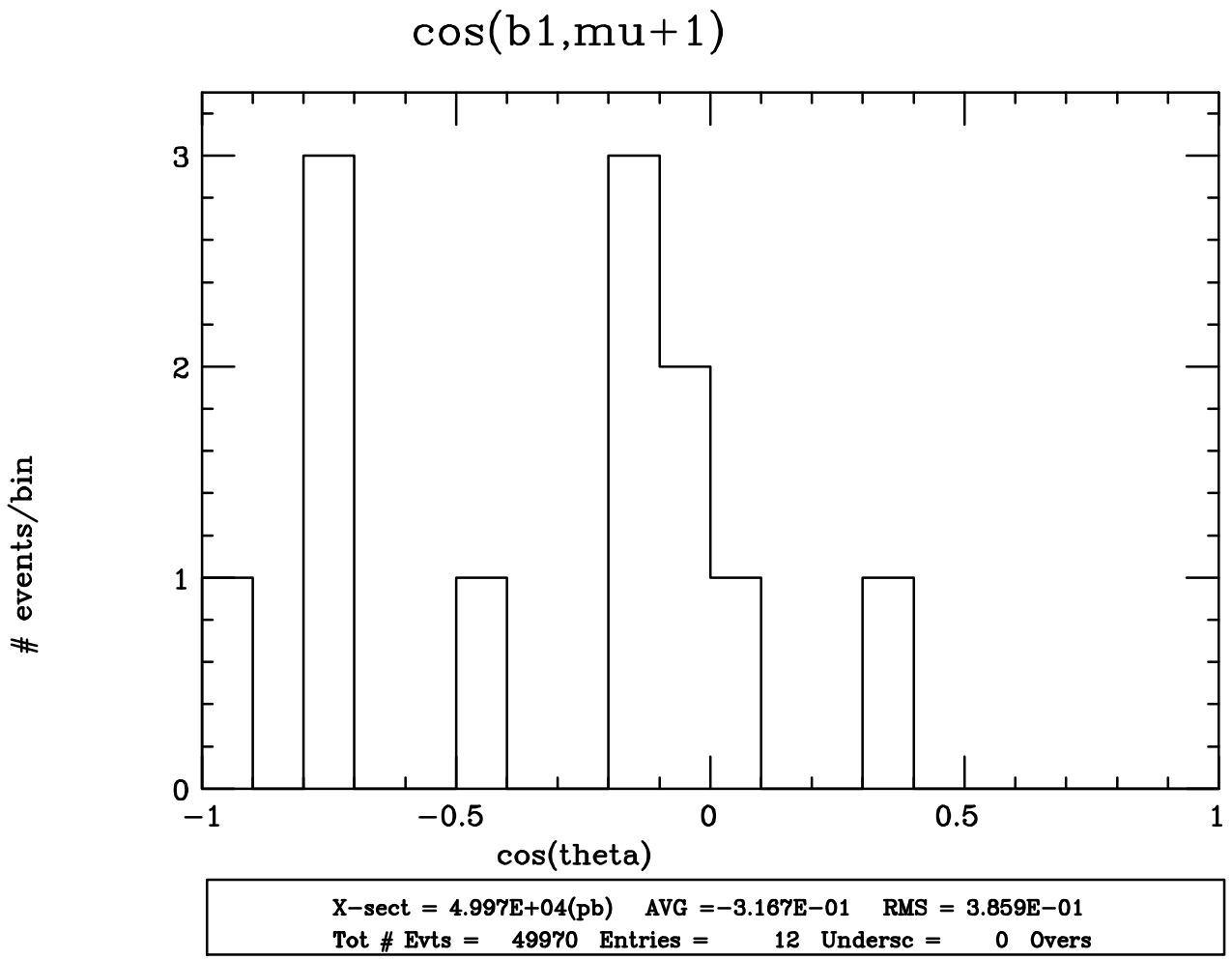

cos(jet1,mu+1)
# events/bin
0
20
40
60
80
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG =−9.575E−02 RMS = 5.279E−01
Tot # Evts = 49970 Entries = 1117 Undersc = 0 Overs

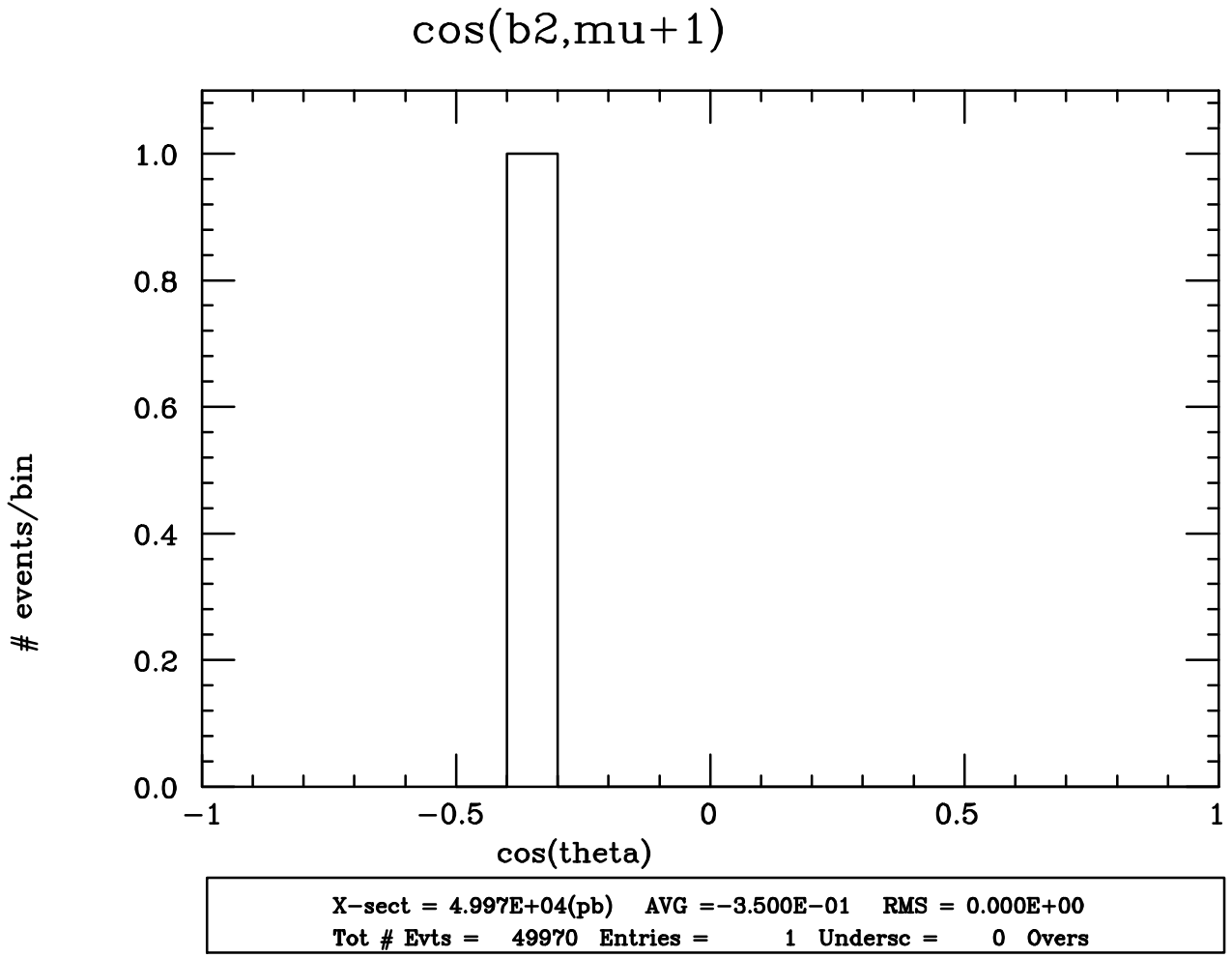

cos(jet2,mu+1)
# events/bin
0
2
4
6
8
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG =−1.863E−01 RMS = 5.687E−01
Tot # Evts = 49970 Entries = 91 Undersc = 0 Overs

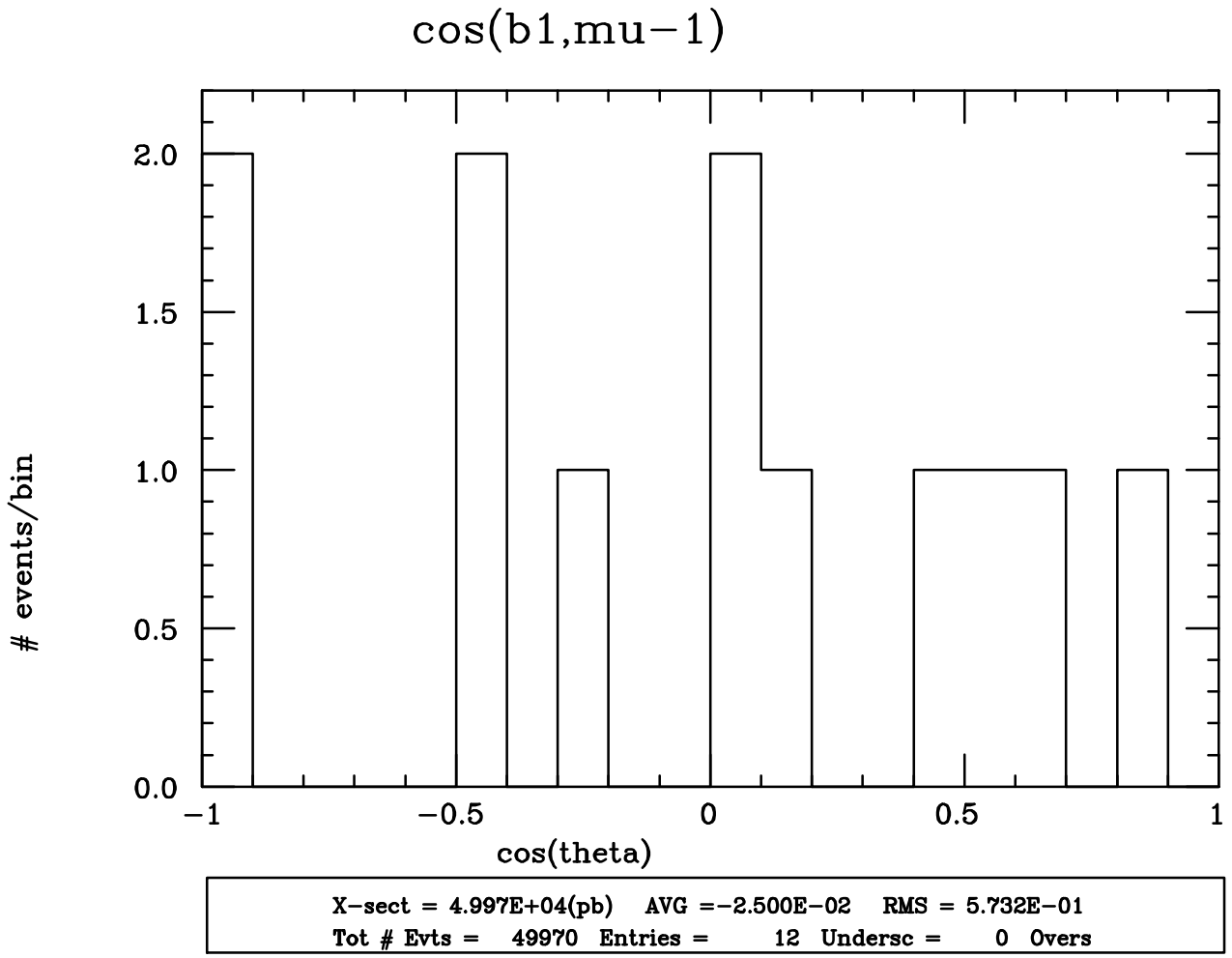

cos(jet1,mu−1)
# events/bin
0
20
40
60
80
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG =−1.178E−01 RMS = 5.433E−01
Tot # Evts = 49970 Entries = 1117 Undersc = 0 Overs

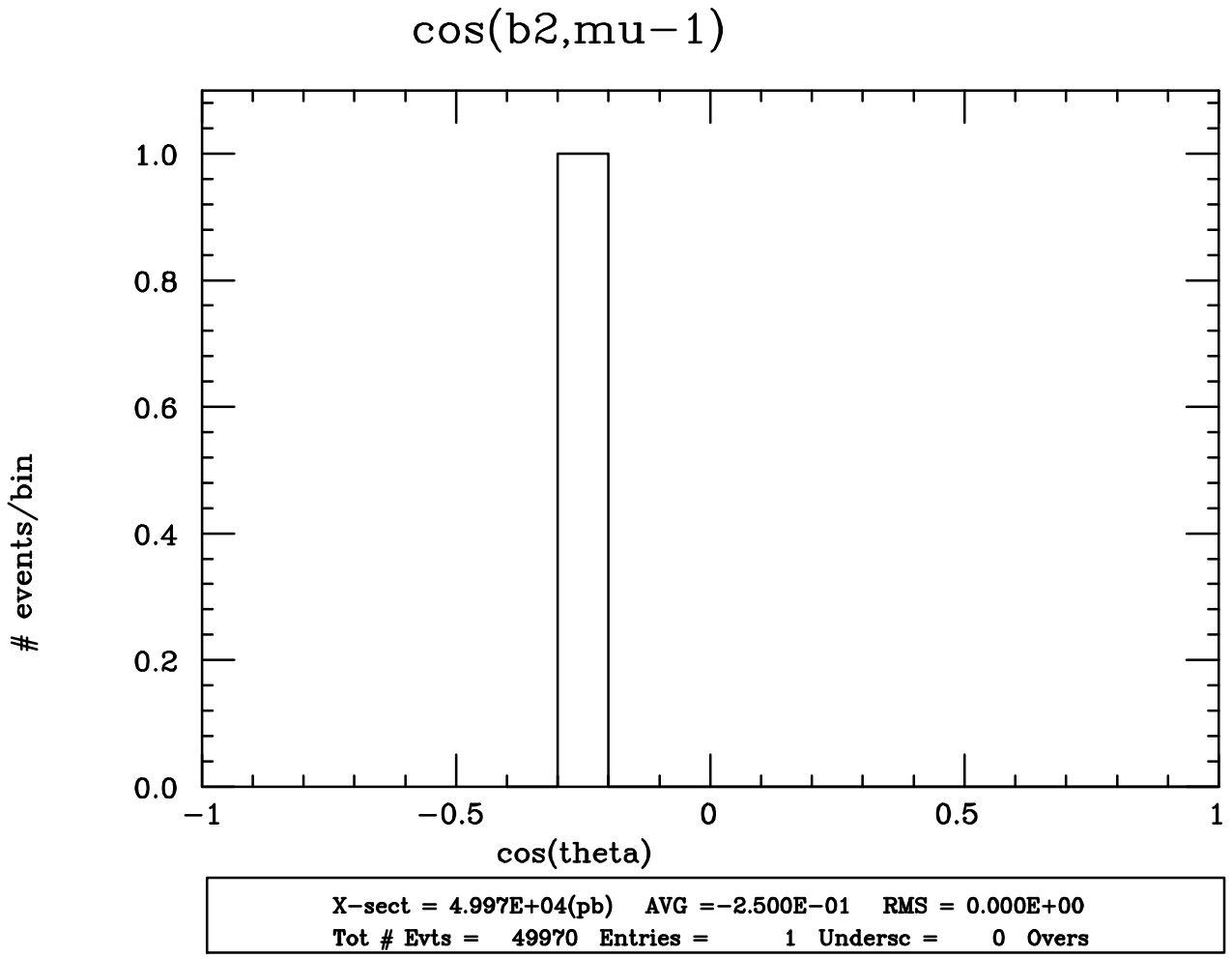

cos(jet2,mu−1)
# events/bin
10.0
7.5
5.0
2.5
0.0
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG =−1.654E−01 RMS = 5.220E−01
Tot # Evts = 49970 Entries = 91 Undersc = 0 Overs

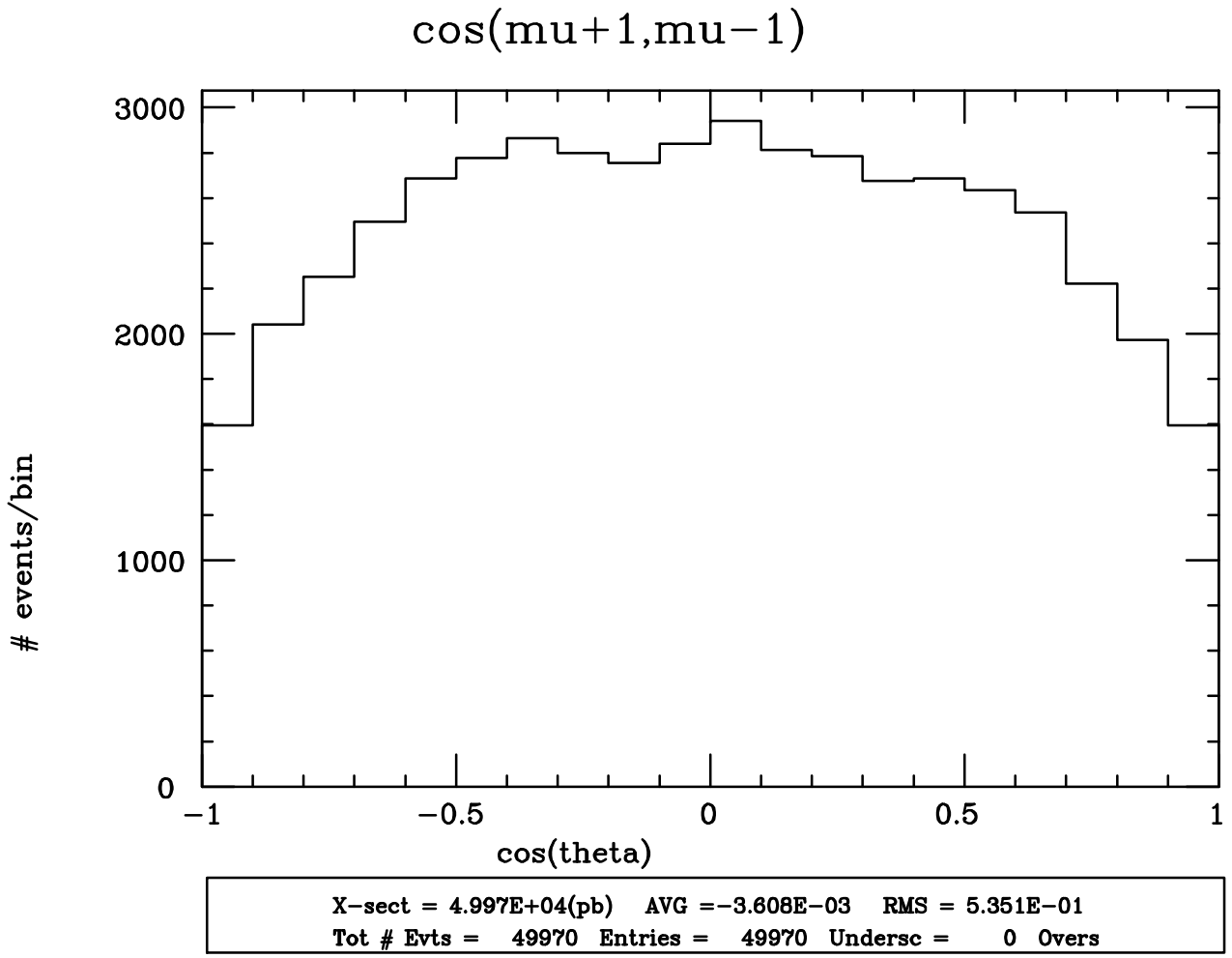

cos(b1,b2)
# events/bin
1.0
0.8
0.6
0.4
0.2
0.0
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG = 3.500E−01 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs


cos(b1,mu+1)
# events/bin
0
1
2
3
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG =−3.167E−01 RMS = 3.859E−01
Tot # Evts = 49970 Entries = 12 Undersc = 0 Overs


cos(b2,mu+1)
# events/bin
1.0
0.8
0.6
0.4
0.2
0.0
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG =−3.500E−01 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs


cos(b1,mu−1)
# events/bin
2.0
1.5
1.0
0.5
0.0
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG =−2.500E−02 RMS = 5.732E−01
Tot # Evts = 49970 Entries = 12 Undersc = 0 Overs


cos(b2,mu−1)
# events/bin
1.0
0.8
0.6
0.4
0.2
0.0
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG =−2.500E−01 RMS = 0.000E+00
Tot # Evts = 49970 Entries = 1 Undersc = 0 Overs


cos(mu+1,mu−1)
3000
2000
1000
0
events/bin
−1
−0.5
0
0.5
1
cos(theta)
X−sect = 4.997E+04(pb) AVG =−3.608E−03 RMS = 5.351E−01
Tot # Evts = 49970 Entries = 49970 Undersc = 0 Overs