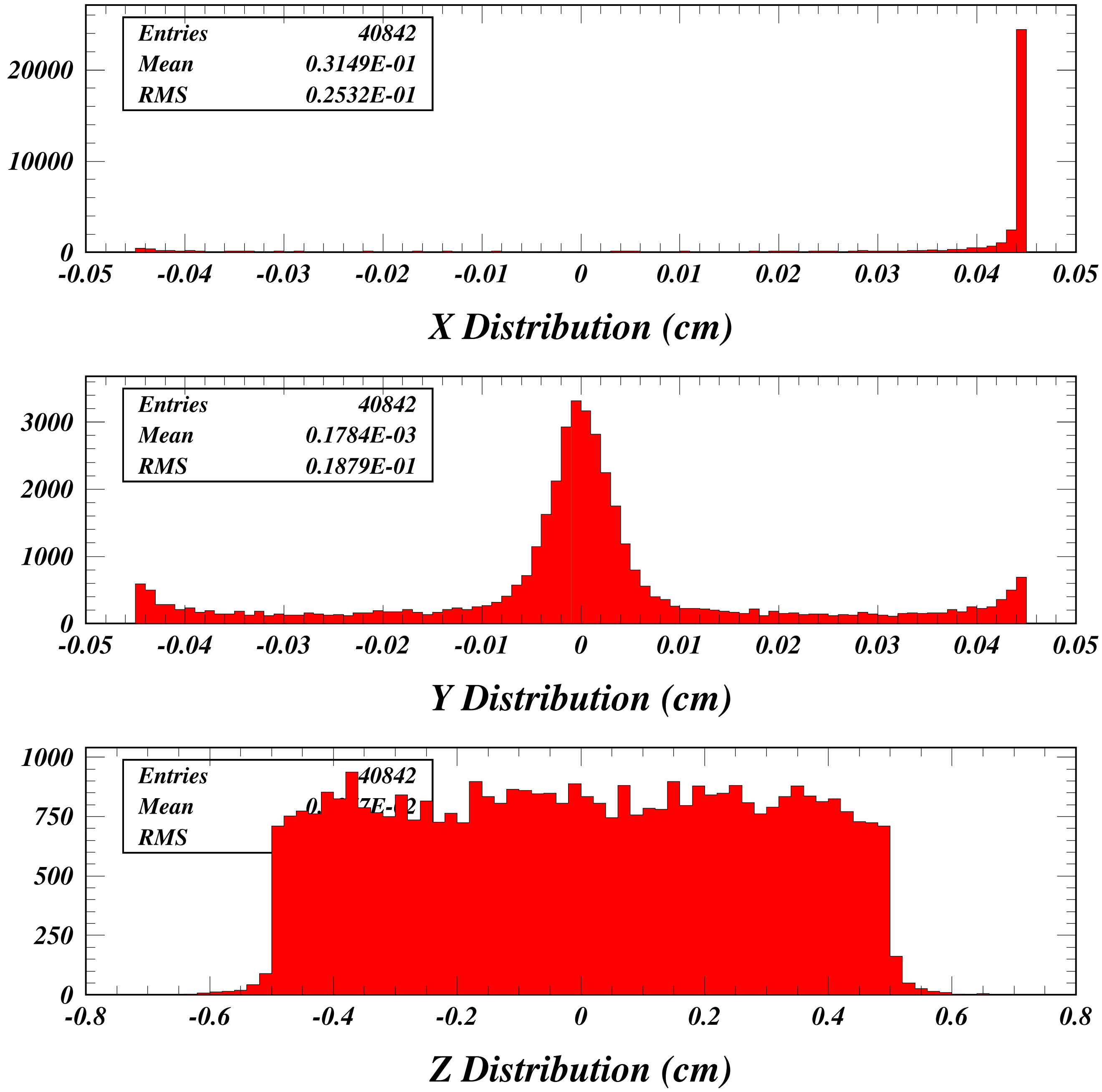
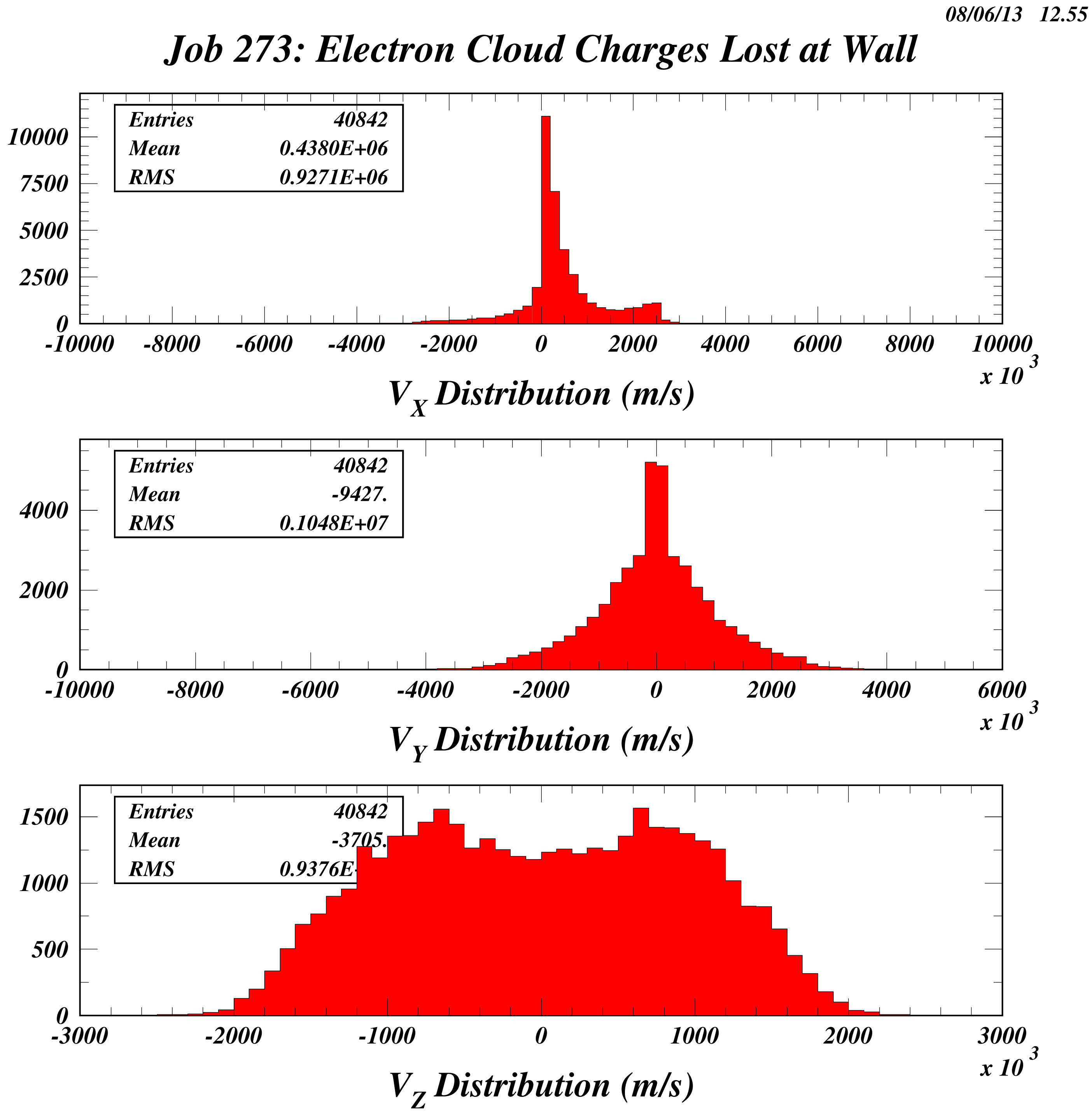
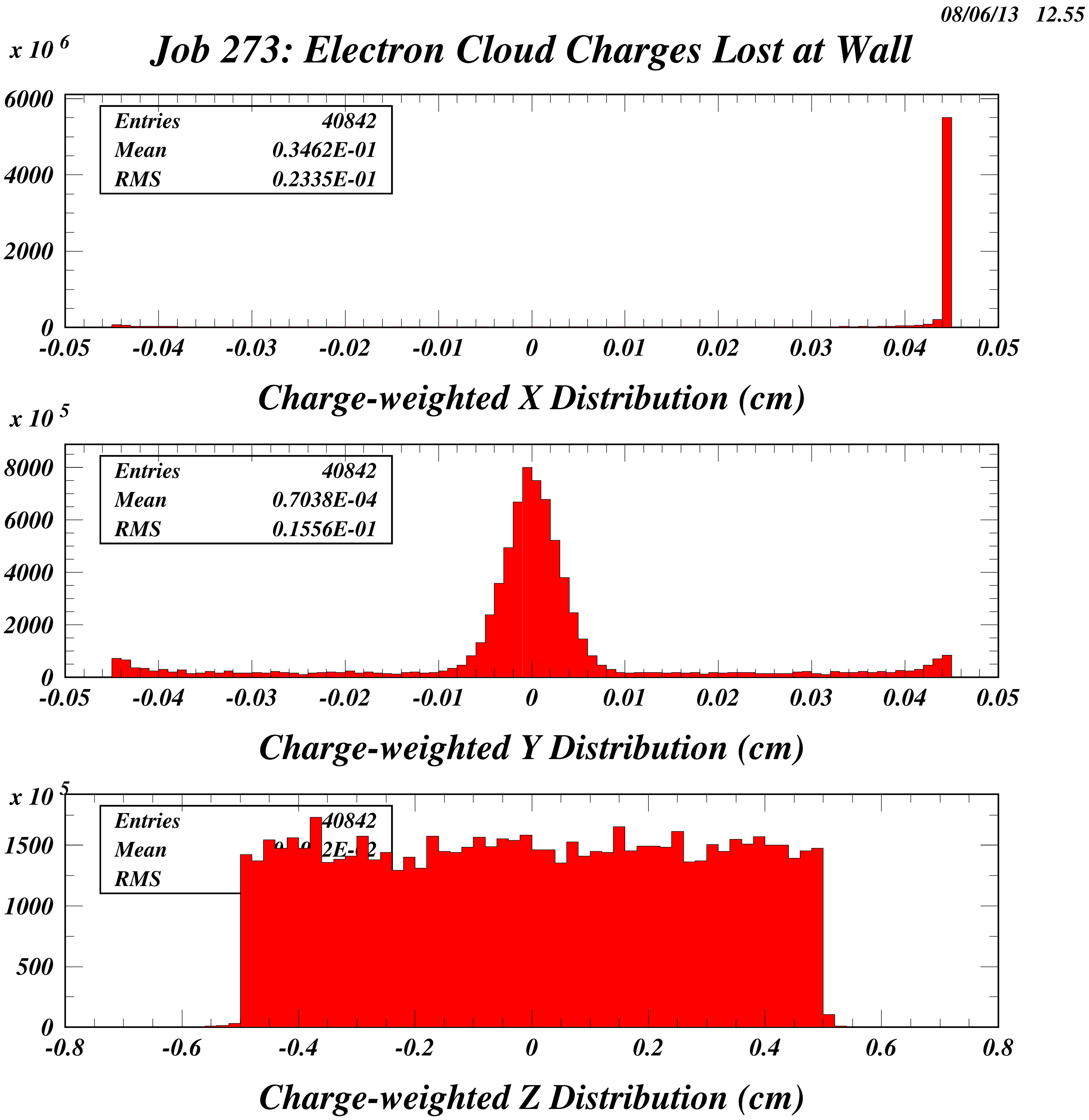
08/06/13 12.55

Job 273: Electron Cloud Charges Lost at Wall




08/06/13 12.55
Job 273: Electron Cloud Charges Lost at Wall
Entries 40842
Mean 0.4380E+06
RMS 0.9271E+06
0
2500
5000
7500
10000
-10000
-8000
-6000
-4000
-2000
0
2000
4000
6000
8000
10000
x 10 3
V X Distribution (m/s)
Entries 40842
Mean -9427.
RMS 0.1048E+07
0
2000
4000
-10000
-8000
-6000
-4000
-2000
0
2000
4000
6000
x 10 3
V Y Distribution (m/s)
Entries 40842
Mean -3705.
RMS 0.9376E
0
500
1000
1500
-3000
-2000
-1000
0
1000
2000
3000
x 10 3
V Z Distribution (m/s)


08/06/13 12.55
Job 273: Electron Cloud Charges Lost at Wall
x 10^6
Entries 40842
Mean 0.3462E-01
RMS 0.2335E-01
6000
4000
2000
0
-0.05 -0.04 -0.03 -0.02 -0.01 0 0.01 0.02 0.03 0.04 0.05
Charge-weighted X Distribution (cm)
x 10^5
Entries 40842
Mean 0.7038E-04
RMS 0.1556E-01
8000
6000
4000
2000
0
-0.05 -0.04 -0.03 -0.02 -0.01 0 0.01 0.02 0.03 0.04 0.05
Charge-weighted Y Distribution (cm)
x 10^5
Entries 40842
Mean
RMS
1500
1000
500
0
-0.8 -0.6 -0.4 -0.2 0 0.2 0.4 0.6 0.8
Charge-weighted Z Distribution (cm)

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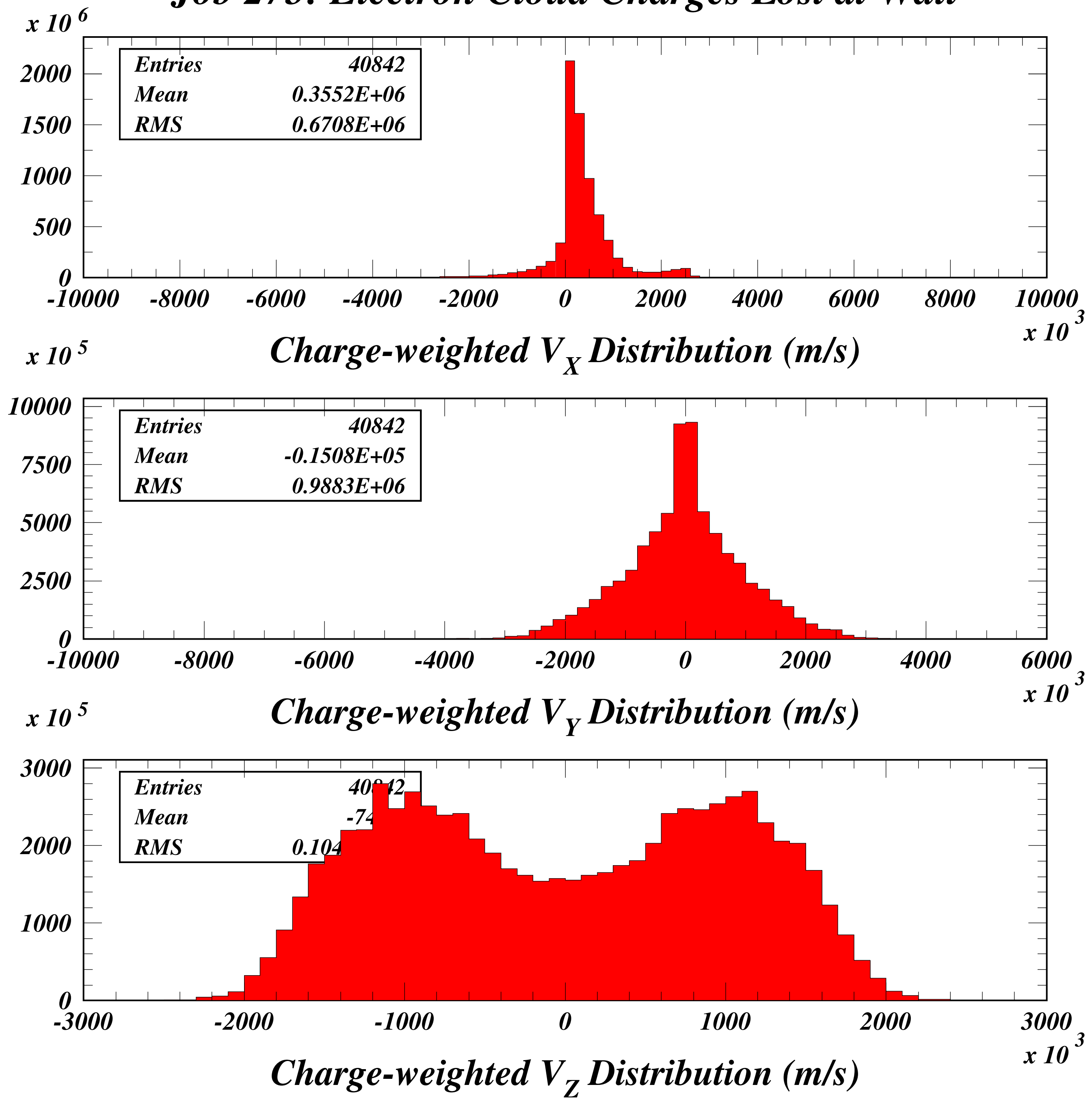
Job 273: Electron Cloud Charges Lost at Wall



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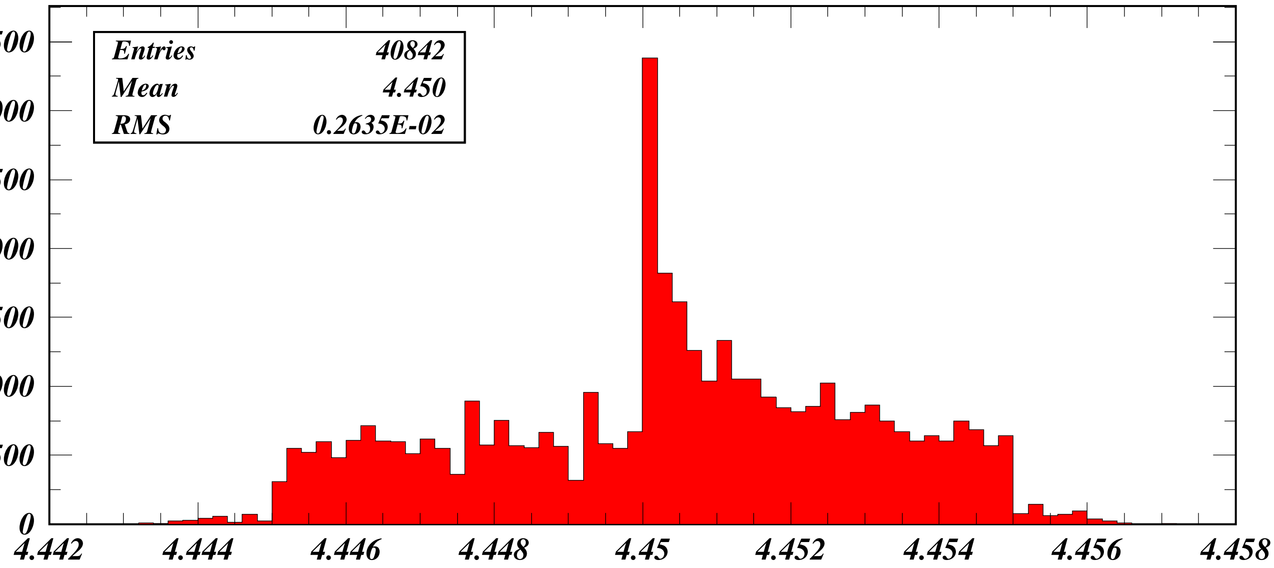
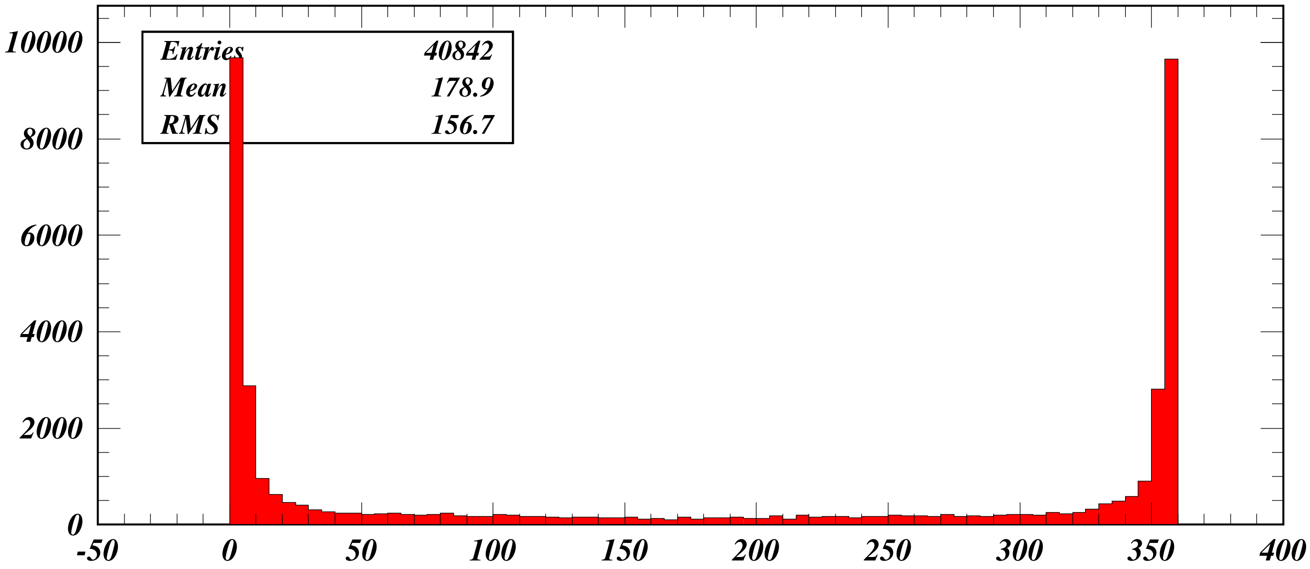
Job 273: Electron Cloud Charges Lost at Wall



ρ Distribution (cm)



ϕ Distribution (degrees)

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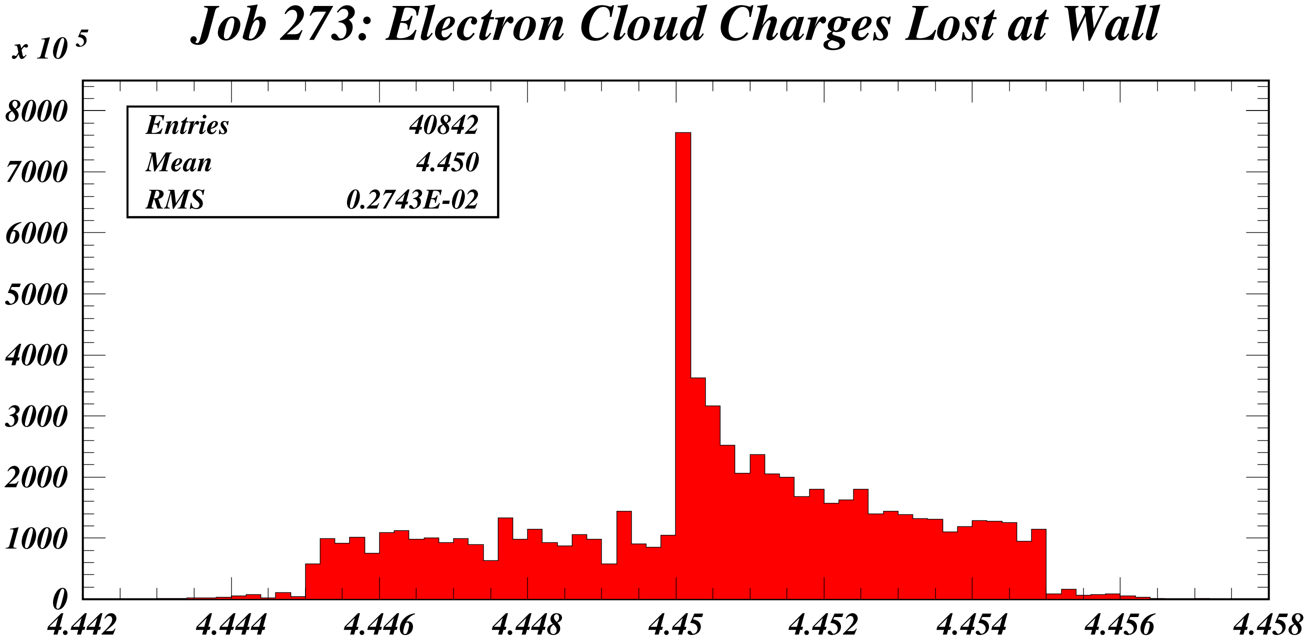
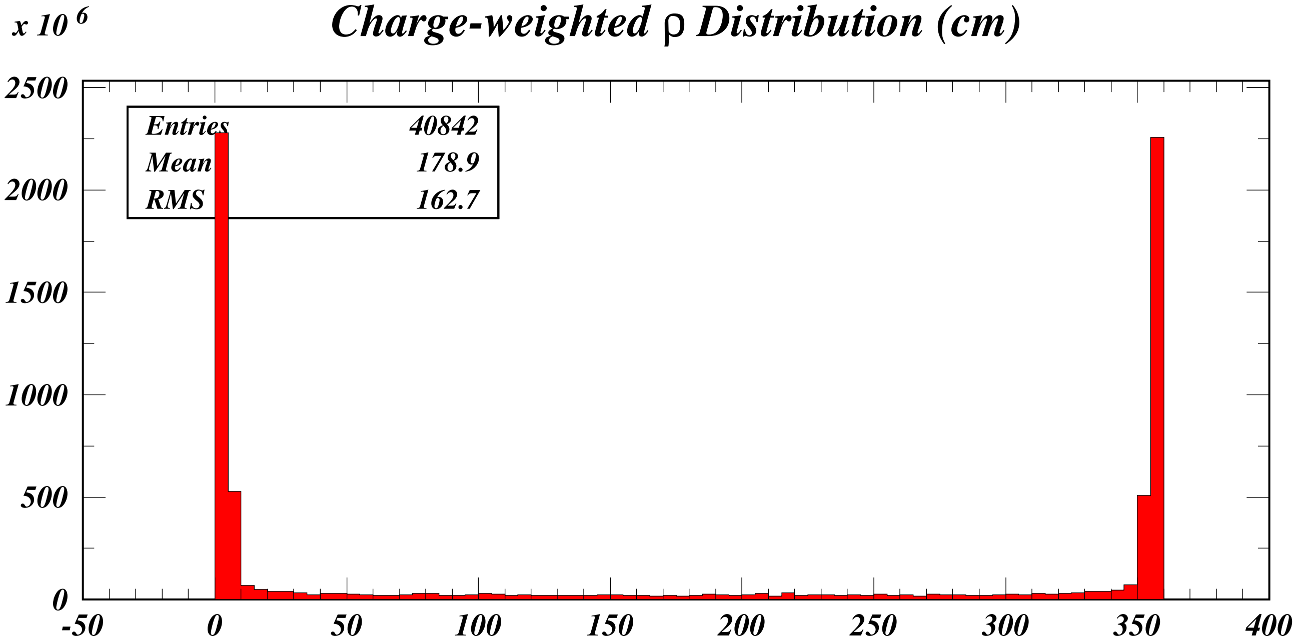
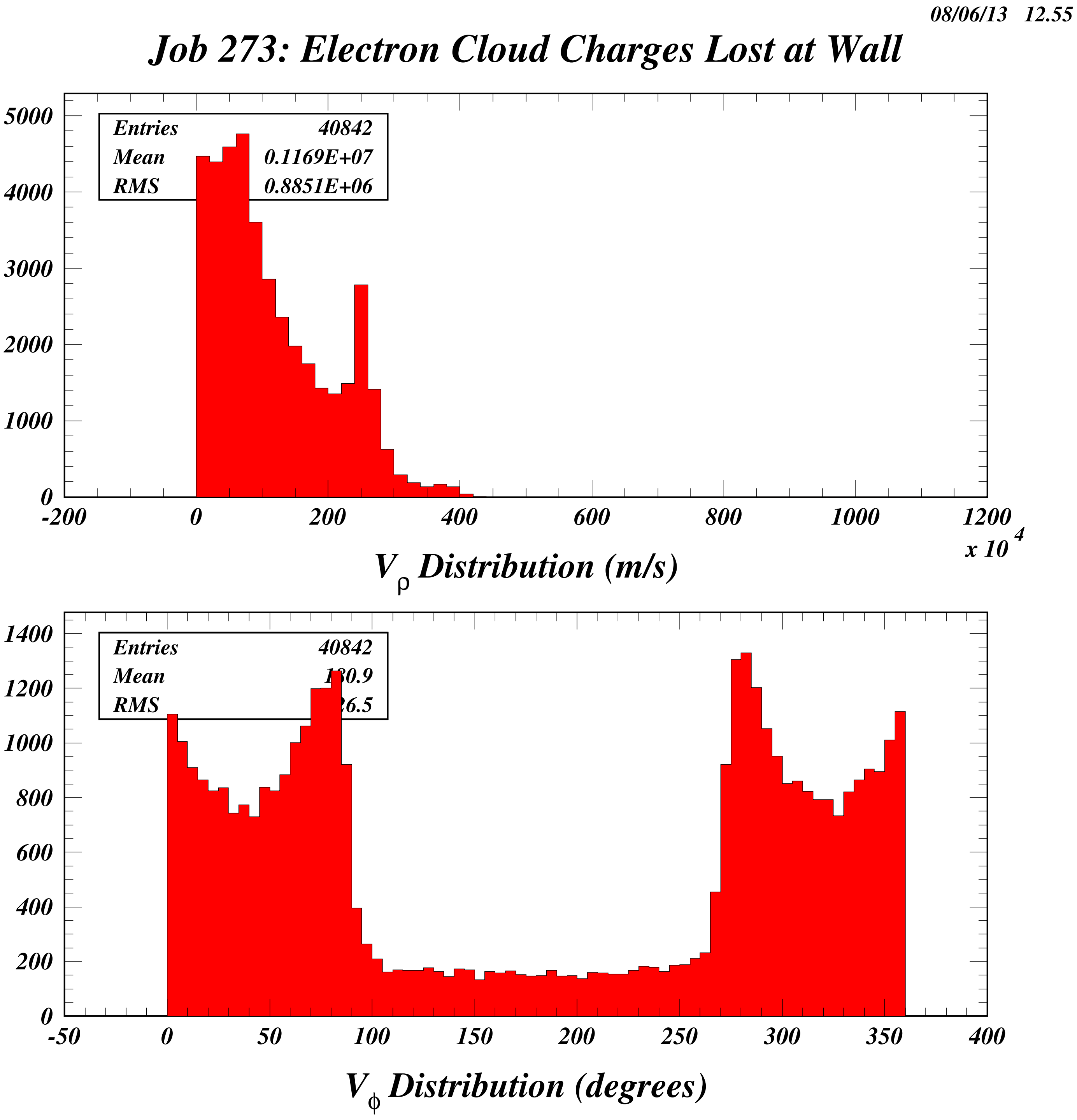
Job 273: Electron Cloud Charges Lost at Wall



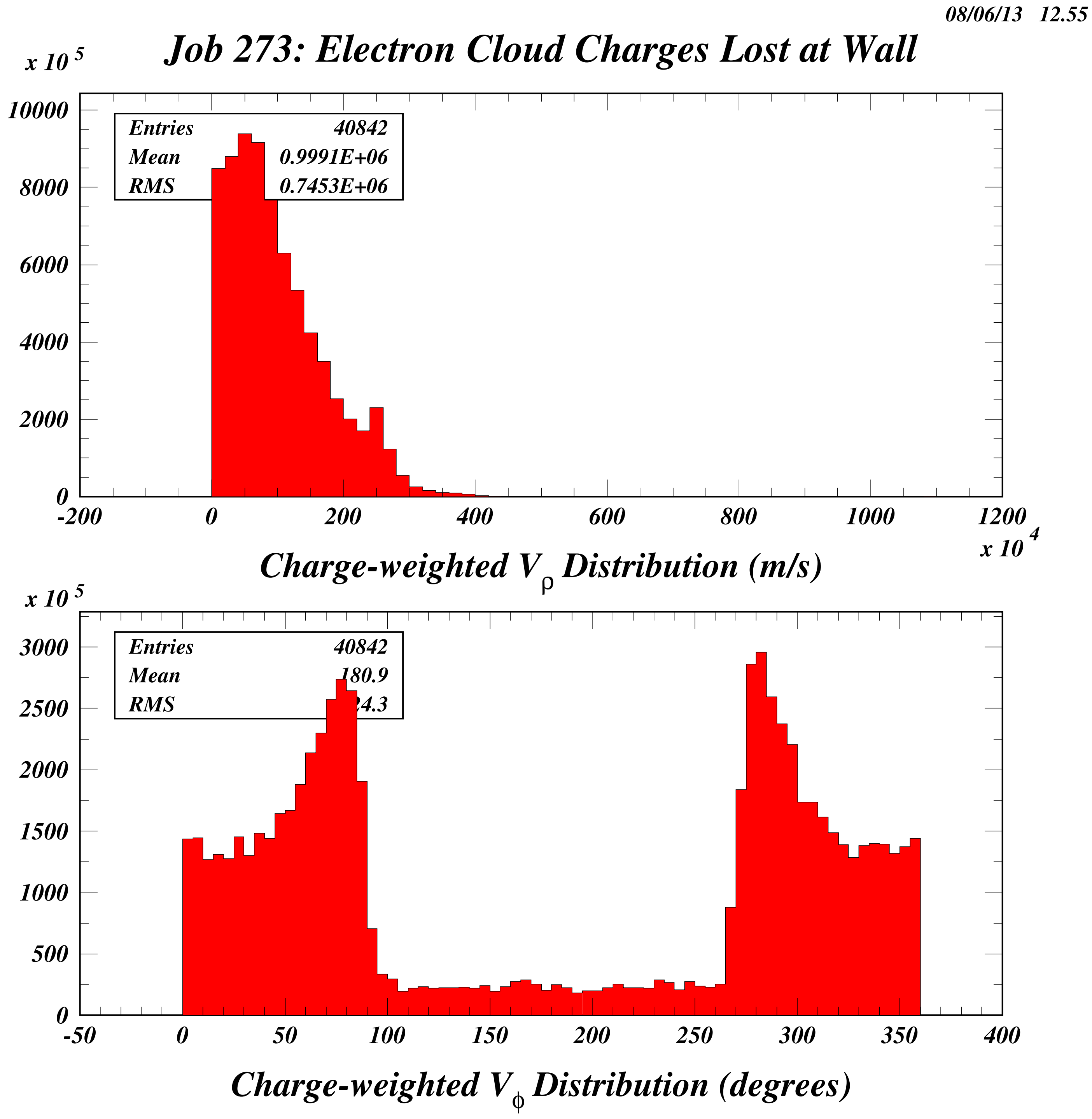
Charge-weighted ρ Distribution (cm)



Charge-weighted φ Distribution (degrees)

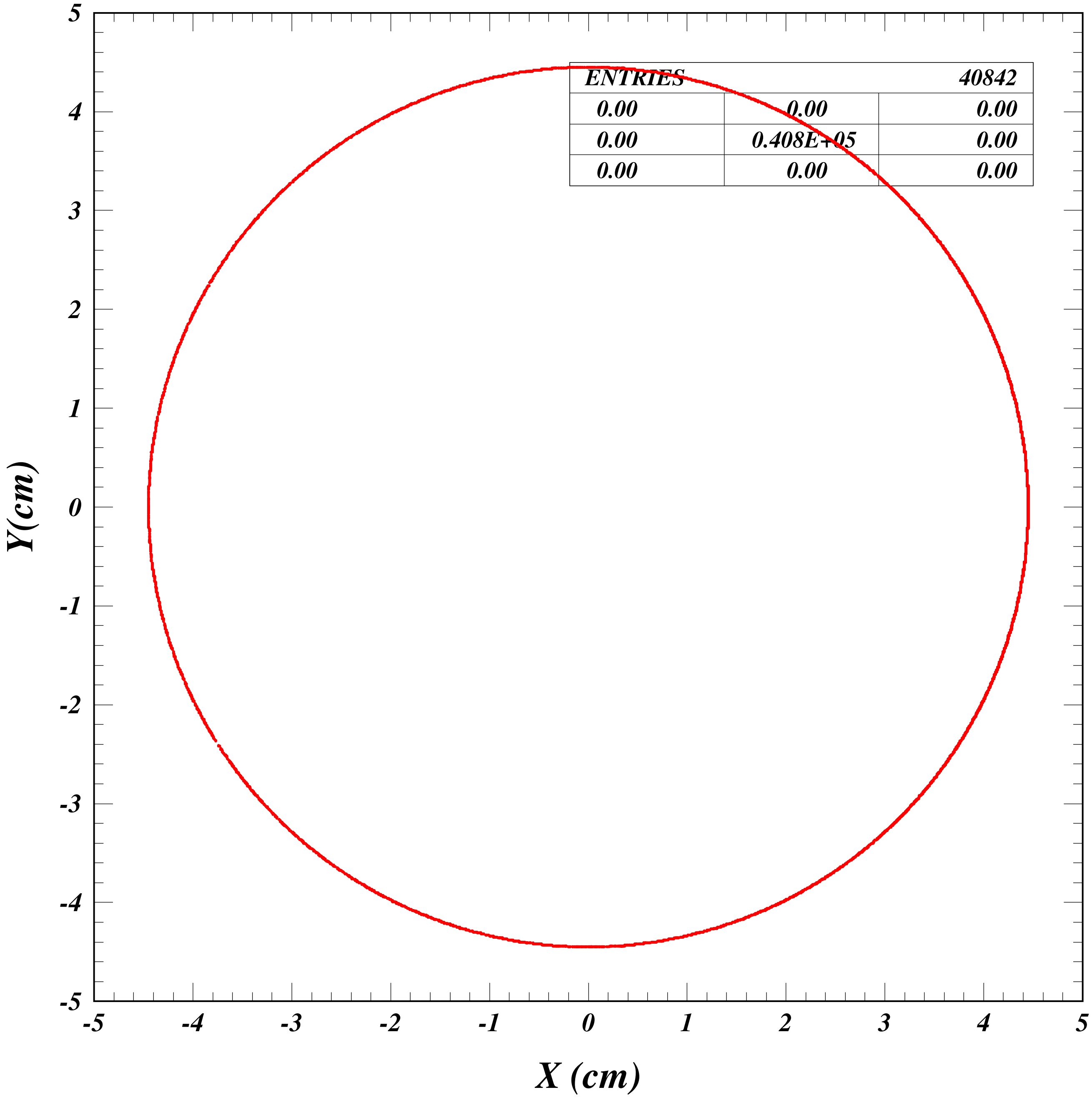


08/06/13 12.55
Job 273: Electron Cloud Charges Lost at Wall
Entries 40842
Mean 0.1169E+07
RMS 0.8851E+06
0
1000
2000
3000
4000
5000
-200
0
200
400
600
800
1000
1200
x 10^4
V_ρ Distribution (m/s)
Entries 40842
Mean
RMS
0
200
400
600
800
1000
1200
1400
-50
0
50
100
150
200
250
300
350
400
V_φ Distribution (degrees)


08/06/13 12.55
Job 273: Electron Cloud Charges Lost at Wall
x 10 5
Entries 40842
Mean 0.9991E+06
RMS 0.7453E+06
0
2000
4000
6000
8000
10000
-200
0
200
400
600
800
1000
1200
x 10 4
Charge-weighted Vρ Distribution (m/s)
x 10 5
Entries 40842
Mean 180.9
RMS
0
500
1000
1500
2000
2500
3000
-50
0
50
100
150
200
250
300
350
400
Charge-weighted Vϕ Distribution (degrees)

08/06/13   12.55

Job 273: Electron Cloud Charges Lost at Wall



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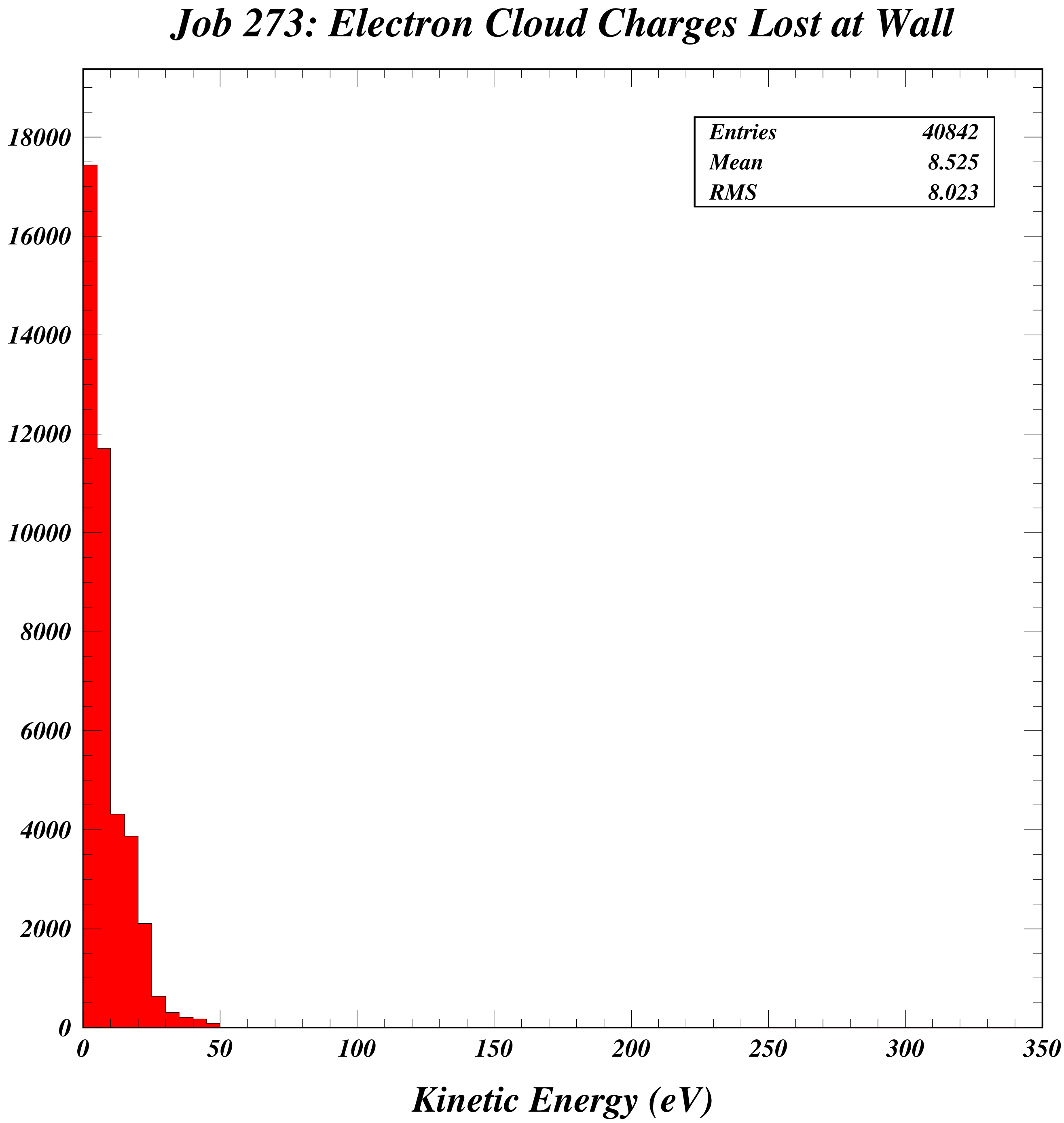
Job 273: Electron Cloud Charges Lost at Wall
Entries 40842
Mean 8.525
RMS 8.023
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
50
100
150
200
250
300
350
Kinetic Energy (eV)

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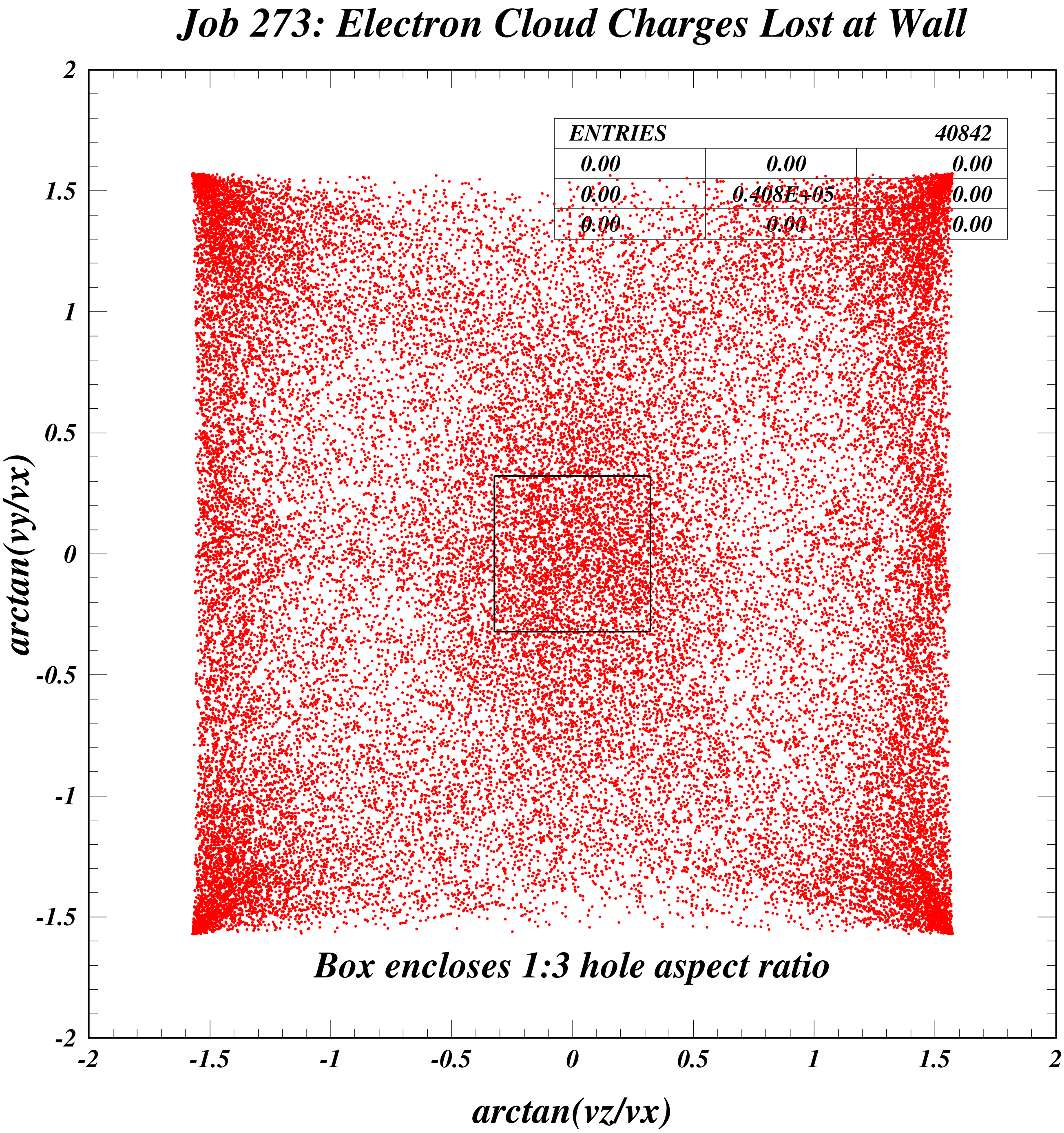

Job 273: Electron Cloud Charges Lost at Wall
ENTRIES 40842
0.00 0.00 0.00
0.00 0.408E+05 0.00
0.00 0.00 0.00
Box encloses 1:3 hole aspect ratio
arctan(vy/vx)
arctan(vz/vx)
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2