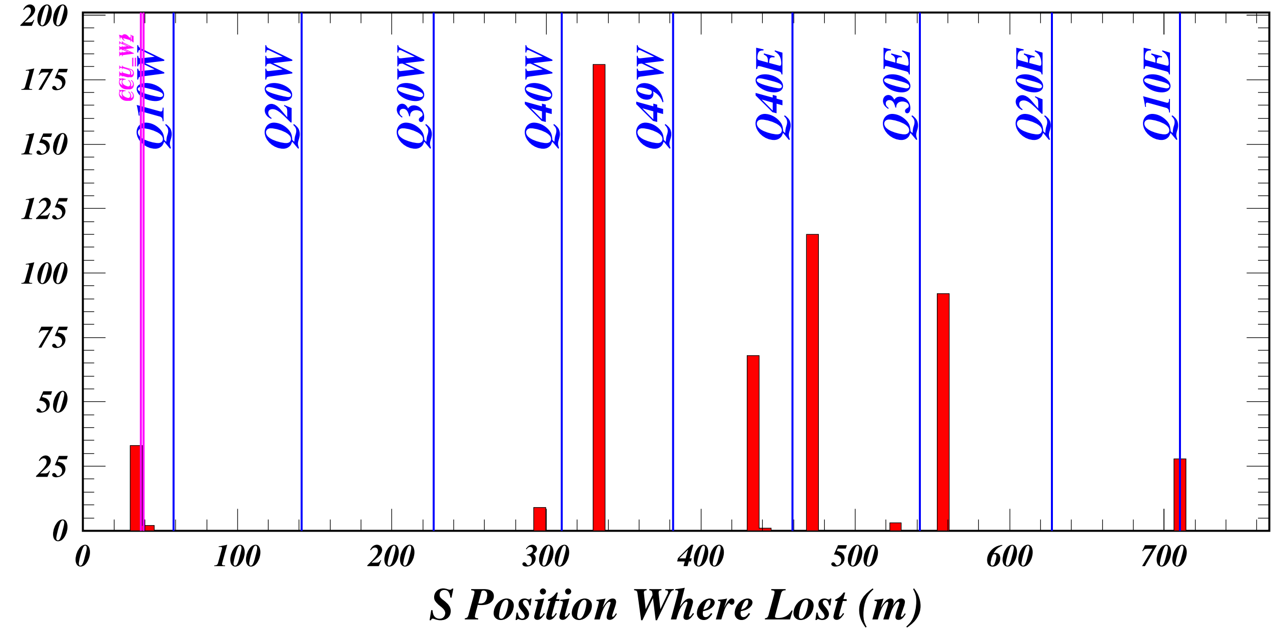
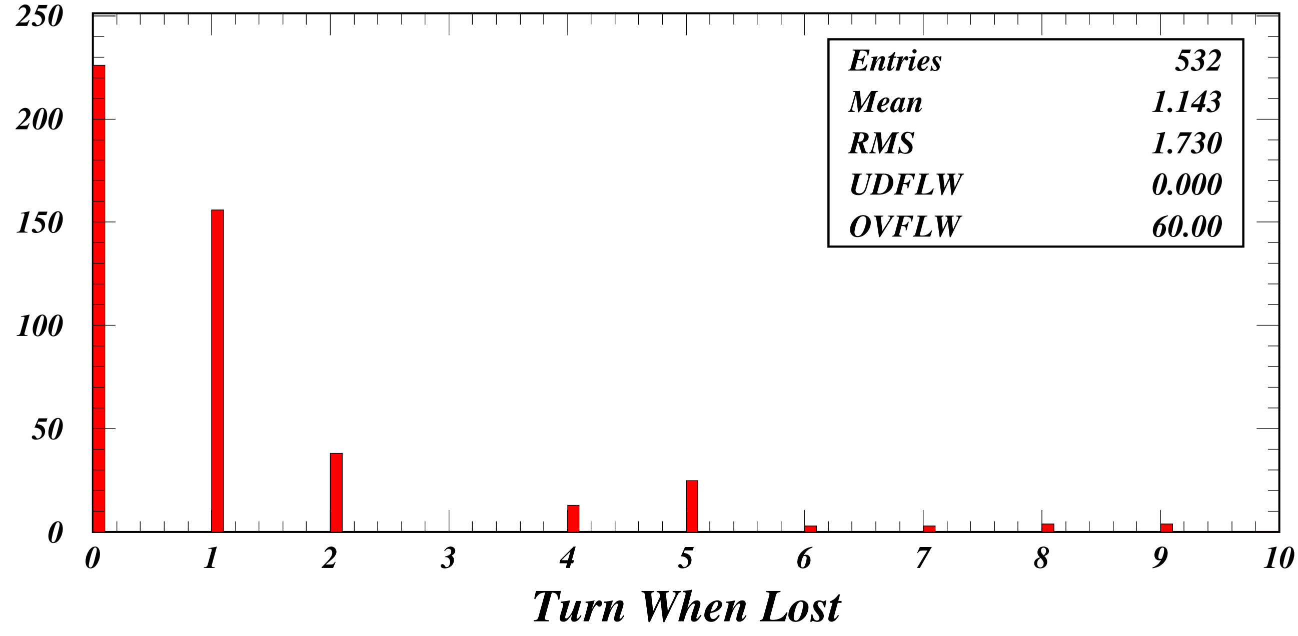
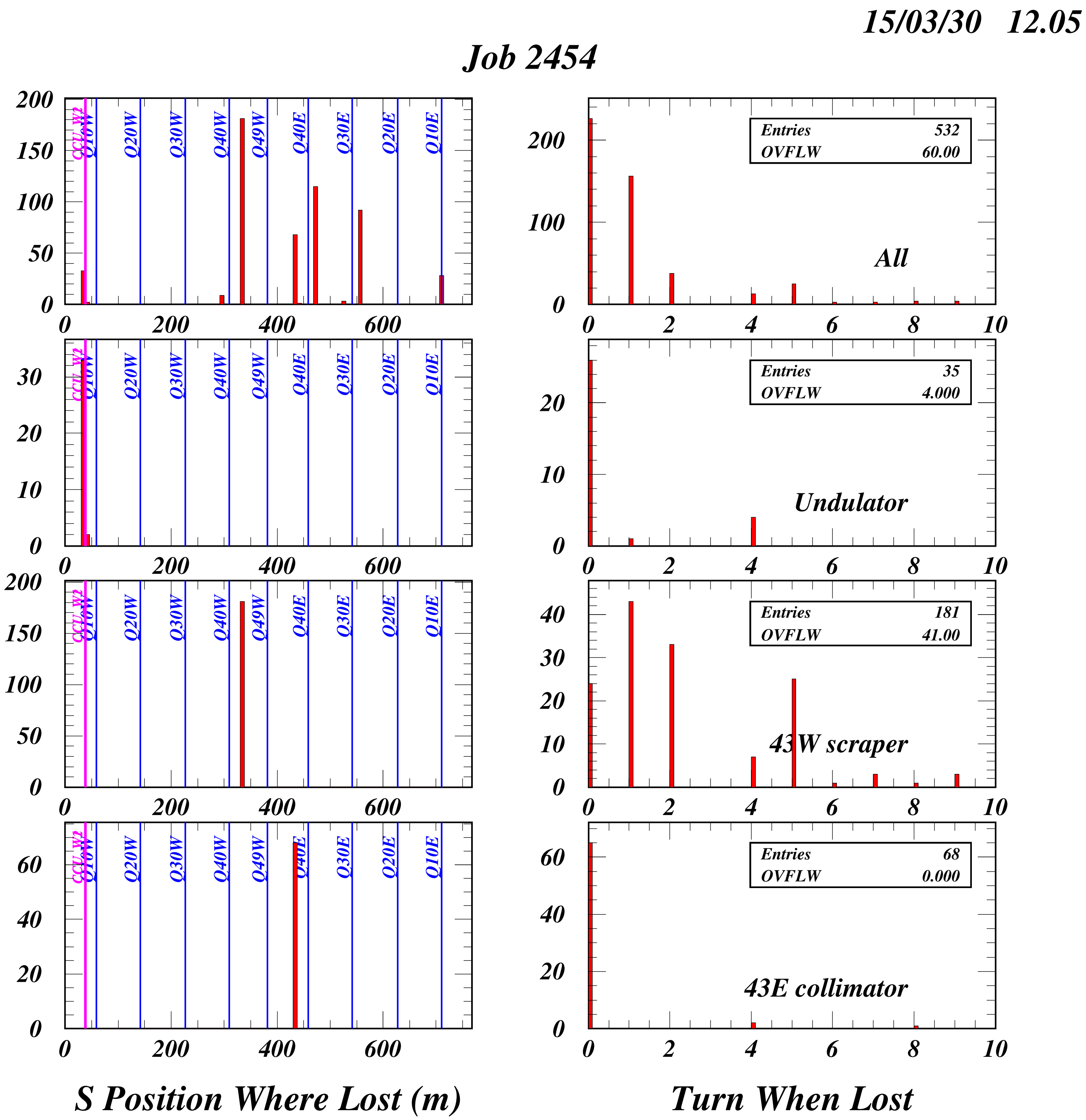
15/03/30 12.05

Job 2454

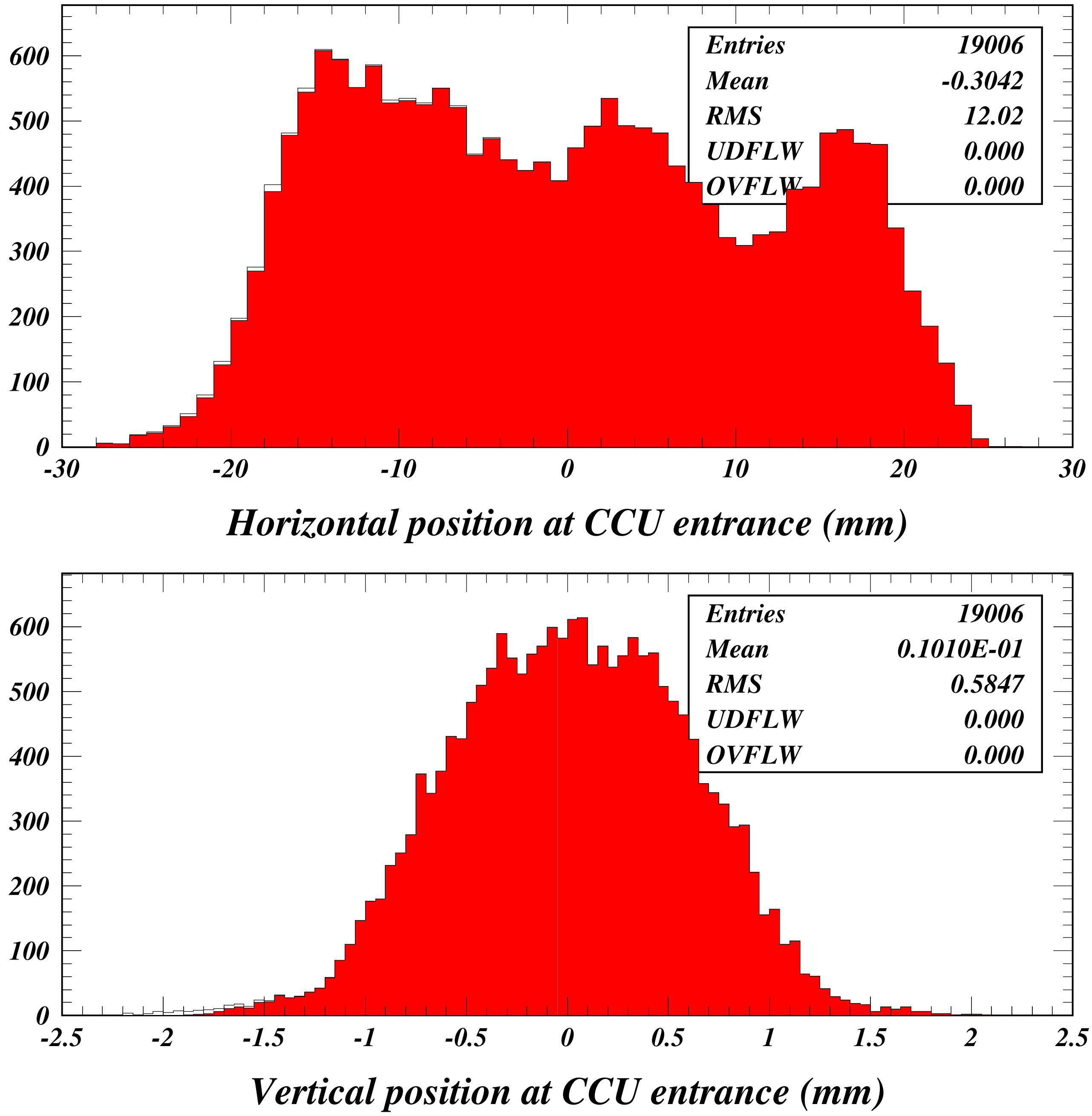


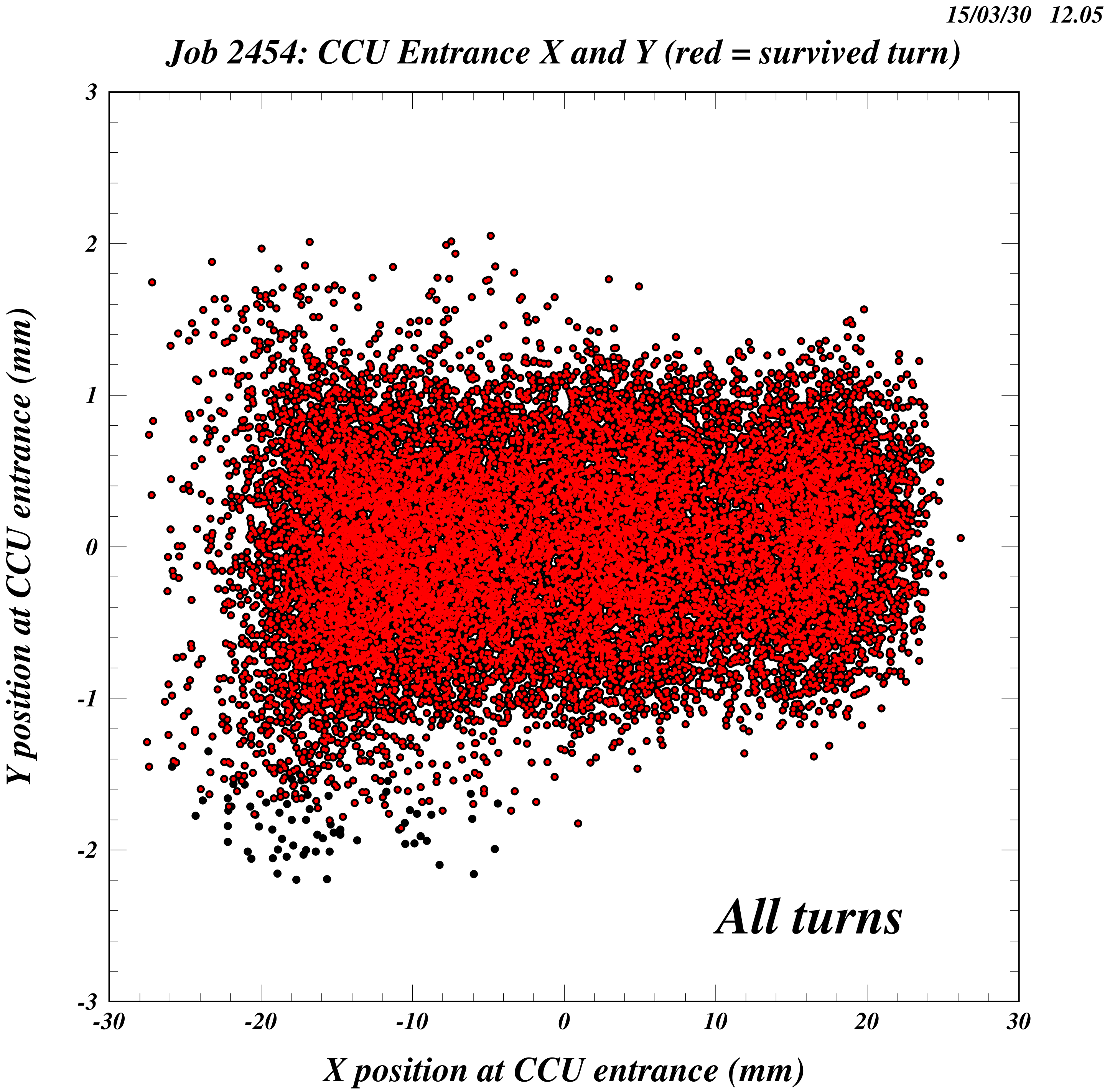


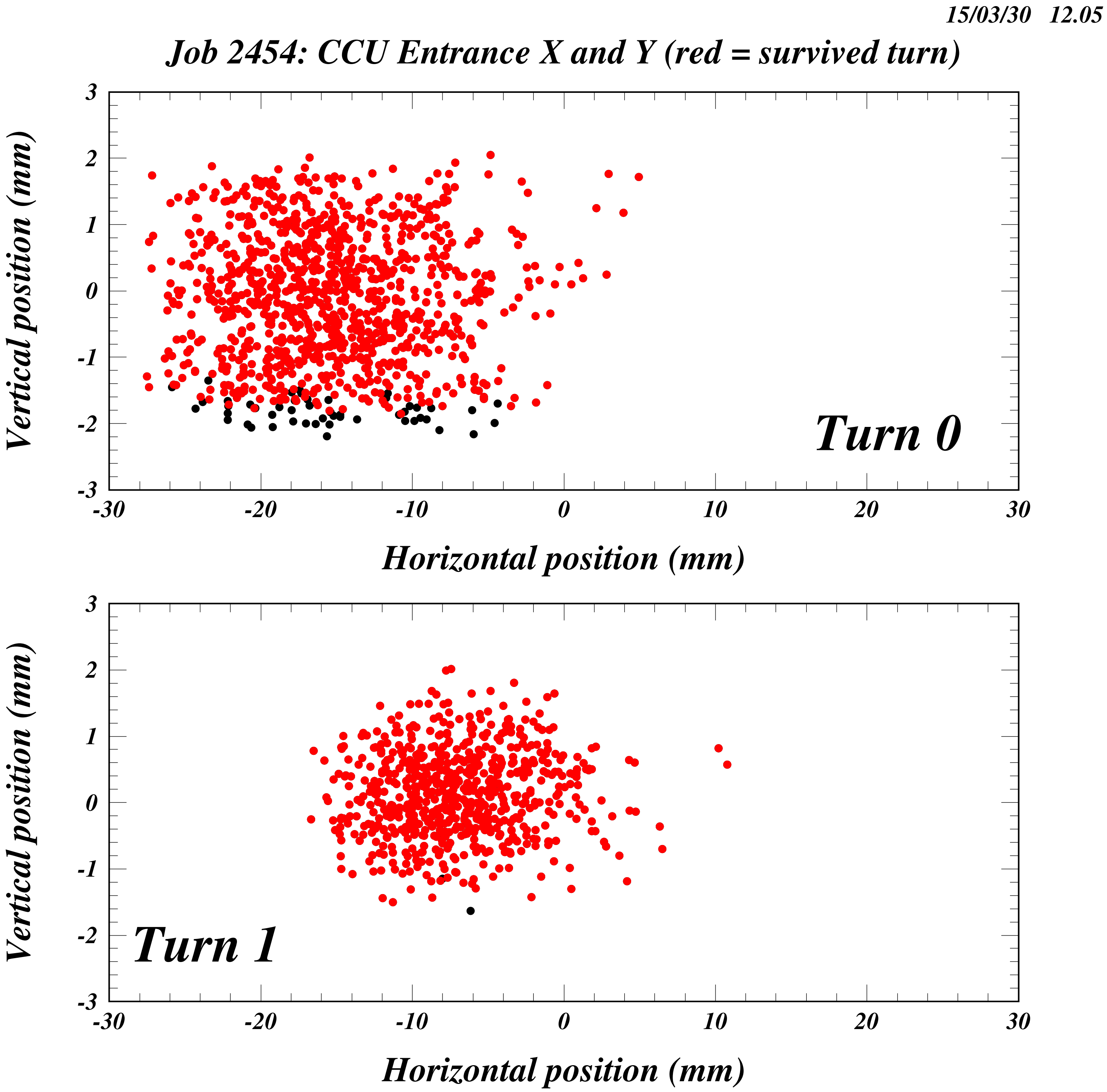

15/03/30 12.05
Job 2454
CCU_W2
Q10W
Q20W
Q30W
Q40W
Q49W
Q40E
Q30E
Q20E
Q10E
Entries 532
OVFLW 60.00
All
Entries 35
OVFLW 4.000
Undulator
Entries 181
OVFLW 41.00
43W scraper
Entries 68
OVFLW 0.000
43E collimator
S Position Where Lost (m)
Turn When Lost

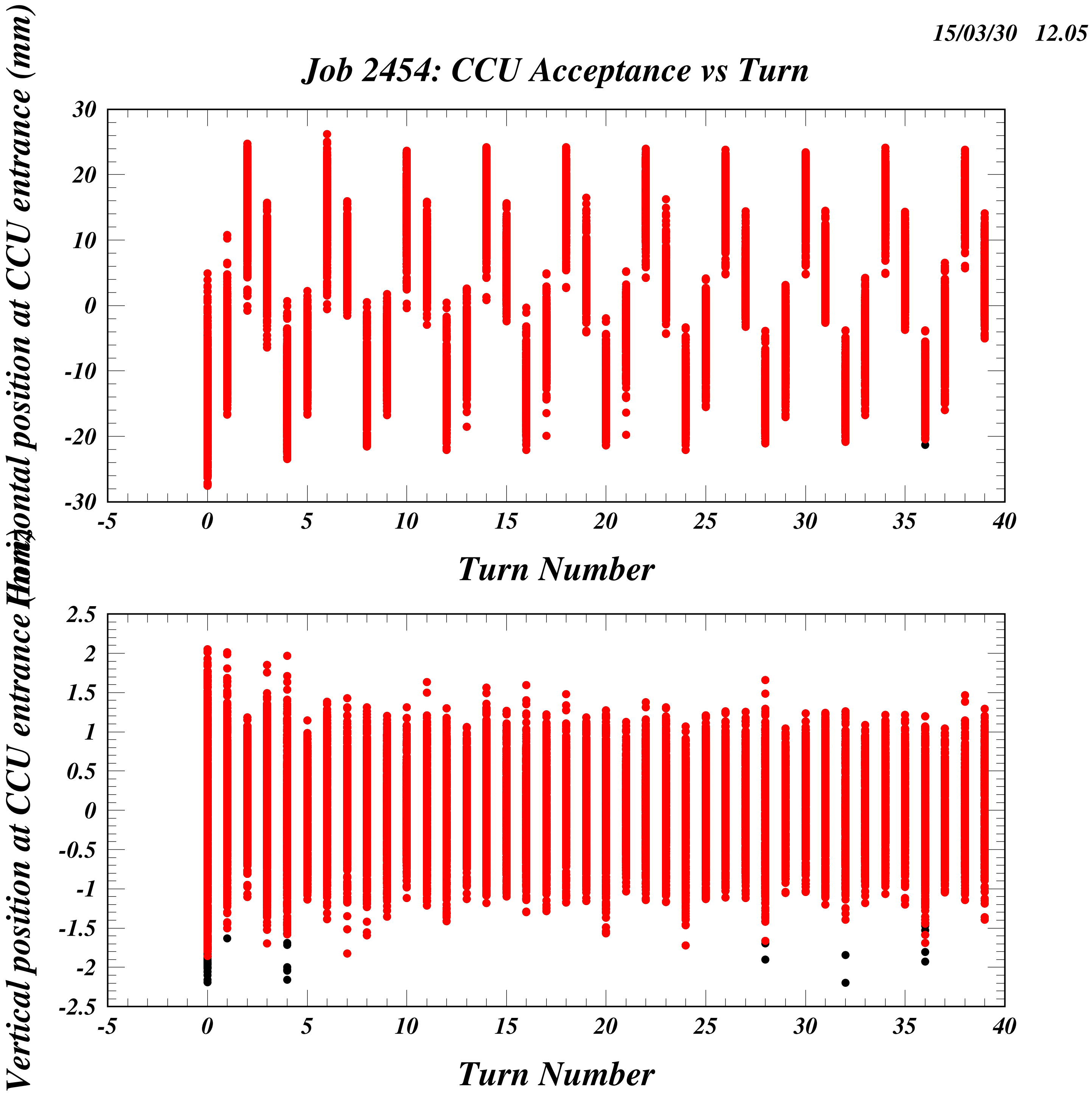
15/03/30 12.05

Job 2454: CCU Entrance X and Y (red = survived turn)



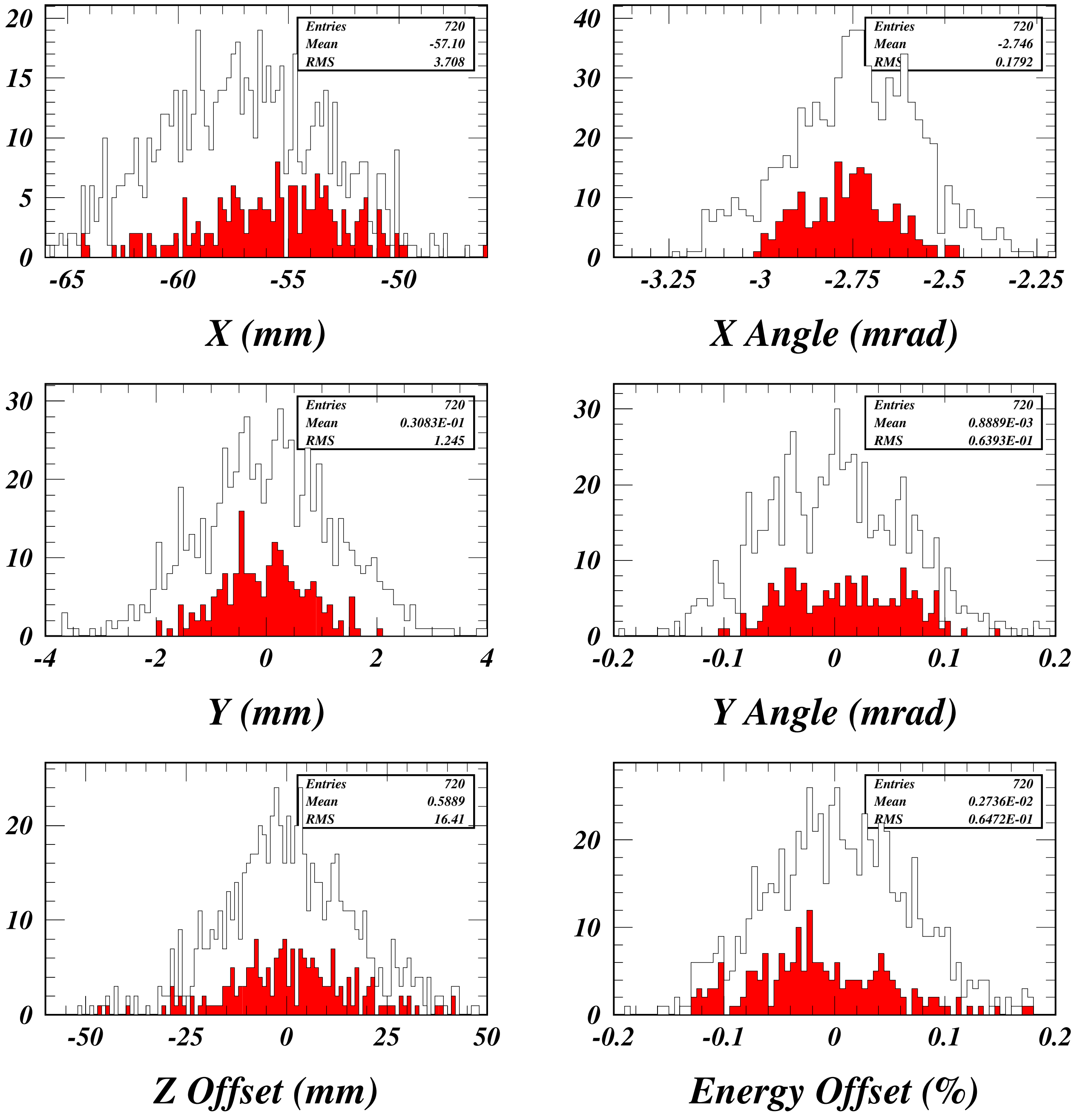

15/03/30 12.05
Job 2454: CCU Entrance X and Y (red = survived turn)
Y position at CCU entrance (mm)
X position at CCU entrance (mm)
All turns
3
2
1
0
-1
-2
-3
-30
-20
-10
0
10
20
30


15/03/30 12.05
Job 2454: CCU Entrance X and Y (red = survived turn)
Vertical position (mm)
Horizontal position (mm)
Turn 0
Turn 1
3
2
1
0
-1
-2
-3
-30
-20
-10
0
10
20
30

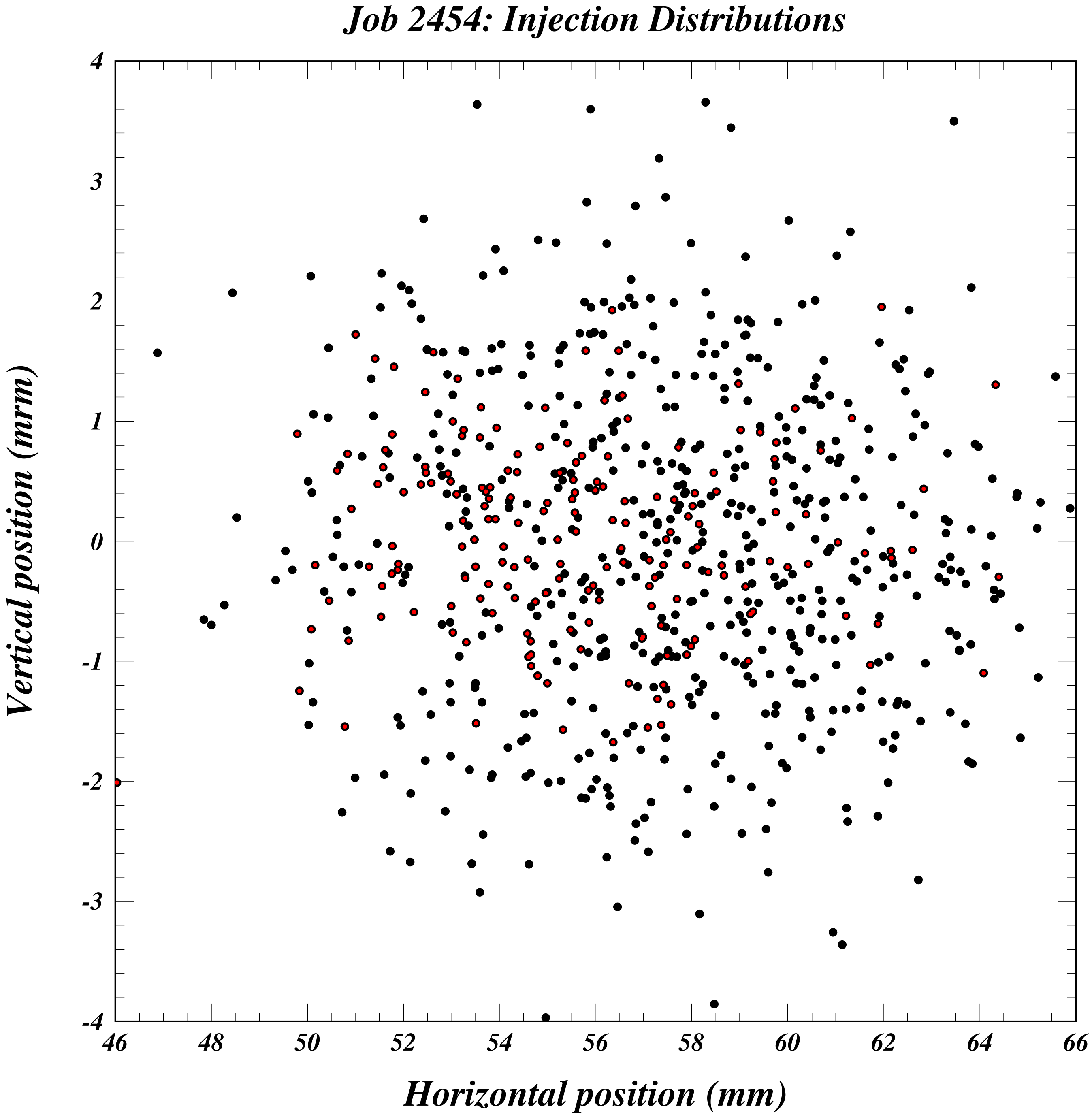

15/03/30 12.05
Job 2454: CCU Acceptance vs Turn
Horizontal position at CCU entrance (mm)
Turn Number
Vertical position at CCU entrance (mm)
Turn Number

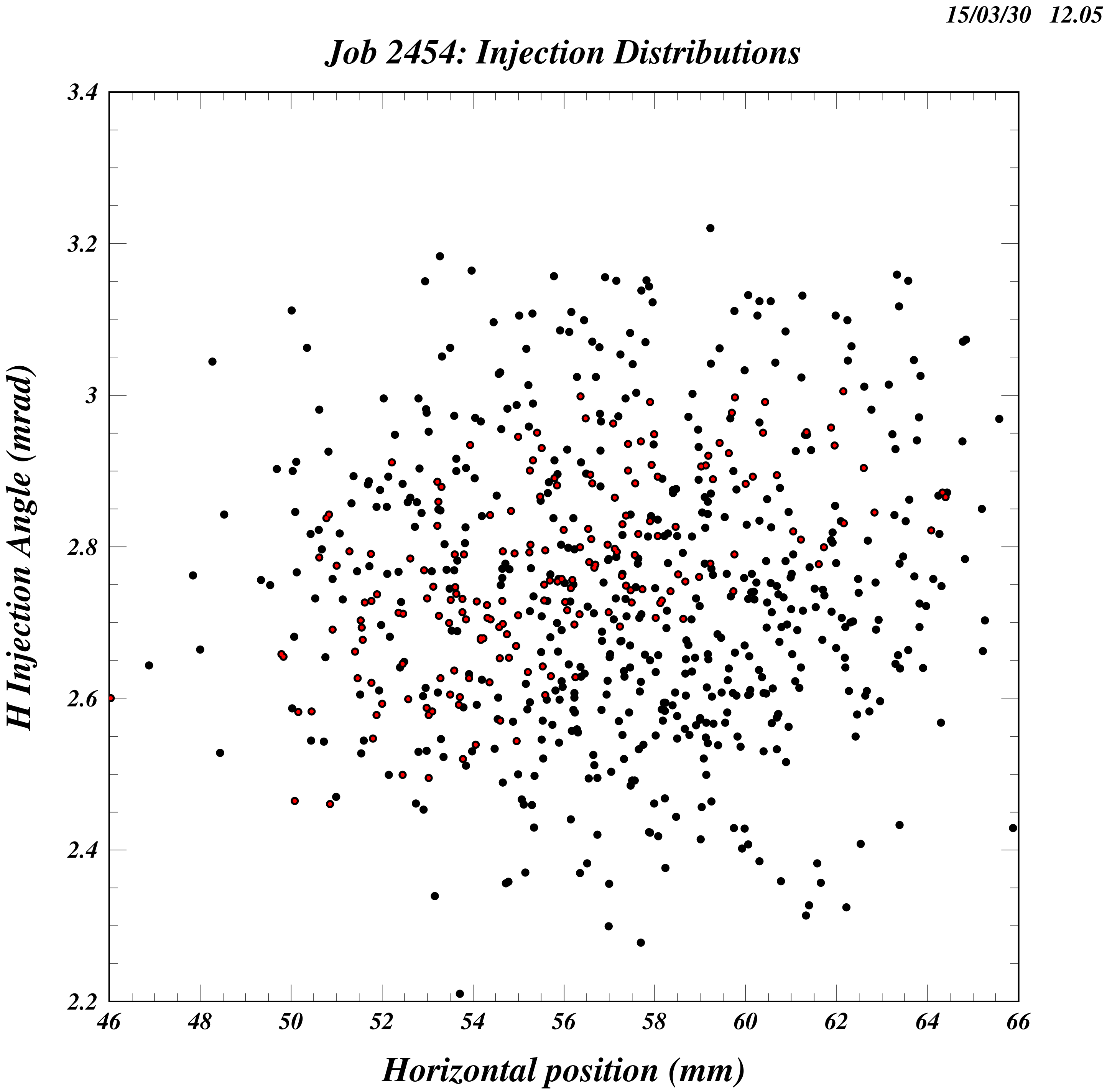
15/03/30 12.05

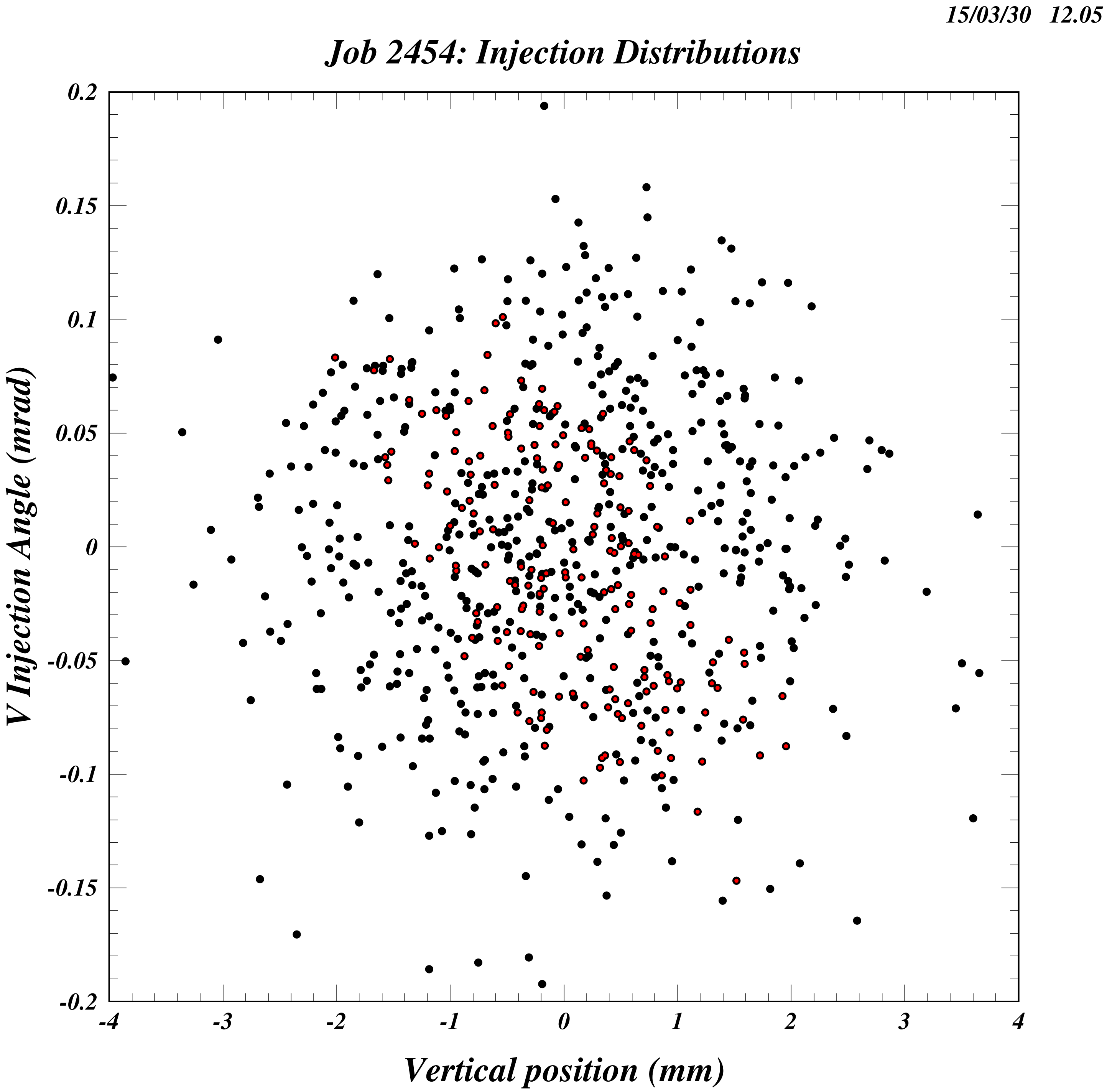
Job 2454: Injection Distributions



15/03/30 12.05

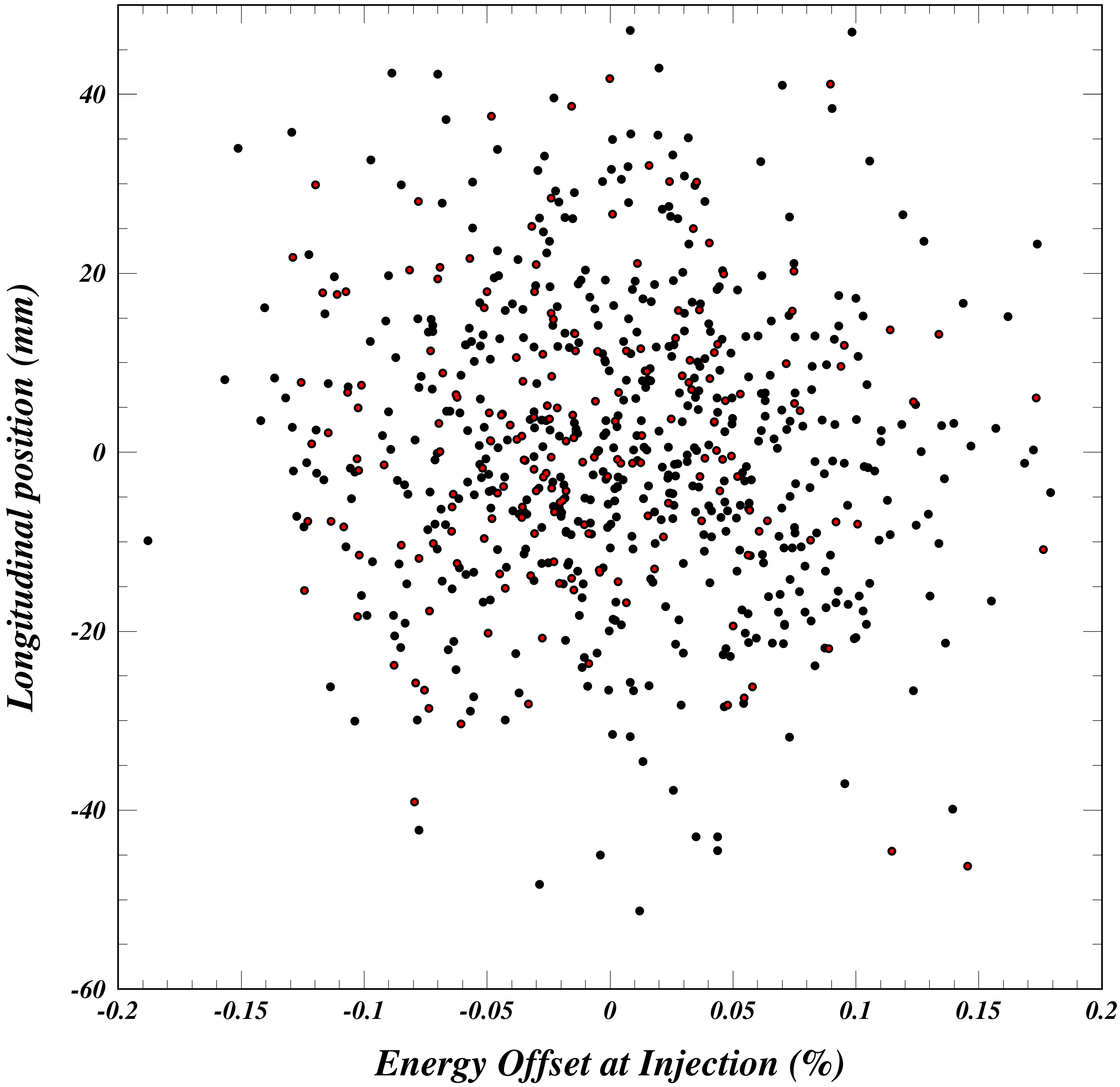

Job 2454: Injection Distributions
Vertical position (mrm)
Horizontal position (mm)
4
3
2
1
0
-1
-2
-3
-4
46
48
50
52
54
56
58
60
62
64
66


15/03/30 12.05
Job 2454: Injection Distributions
H Injection Angle (mrad)
Horizontal position (mm)
3.4
3.2
3
2.8
2.6
2.4
2.2
46
48
50
52
54
56
58
60
62
64
66


15/03/30 12.05
Job 2454: Injection Distributions
V Injection Angle (mrad)
Vertical position (mm)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-4
-3
-2
-1
0
1
2
3
4

15/03/30 12.05

Job 2454: Injection Distributions



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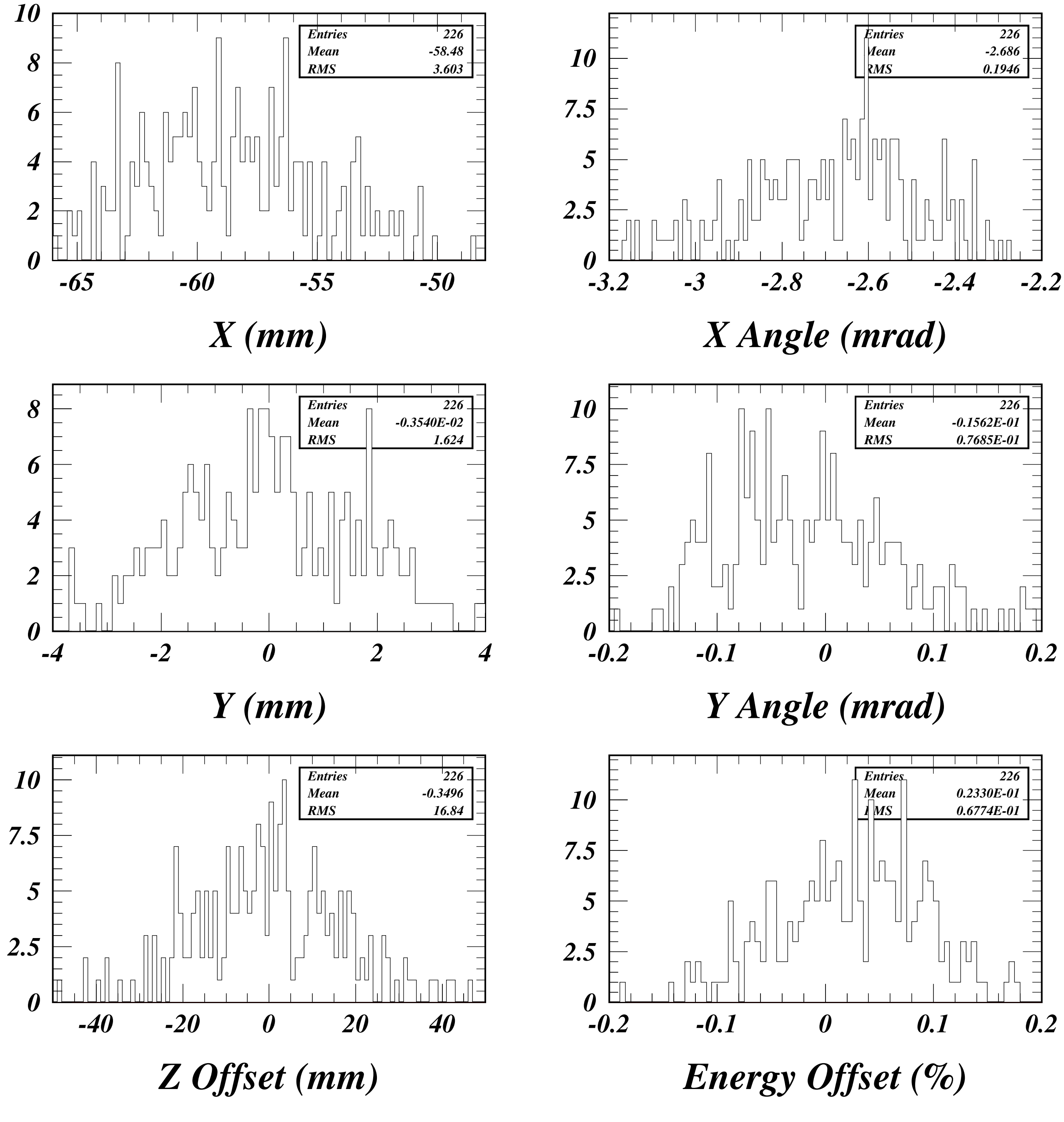
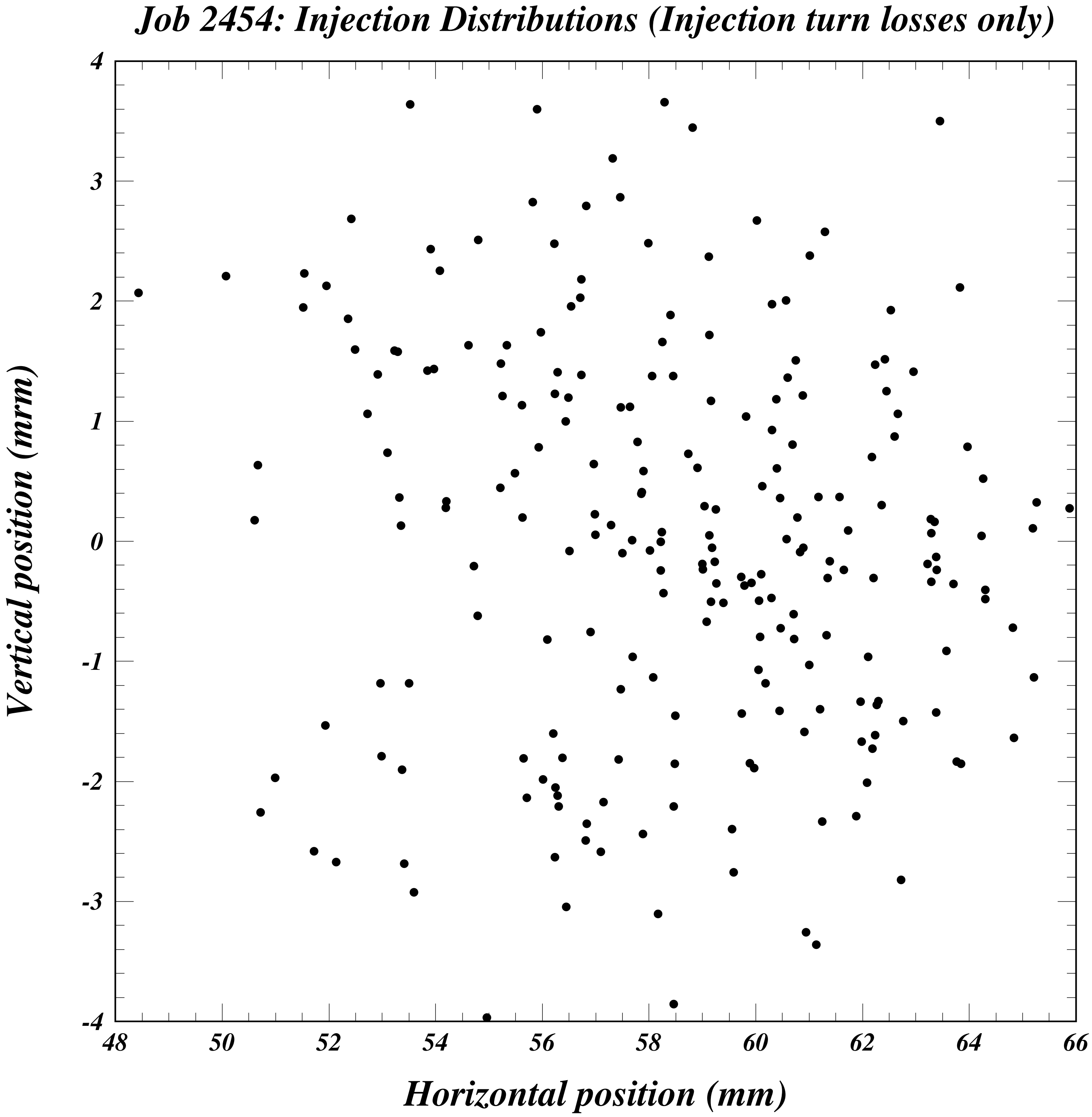
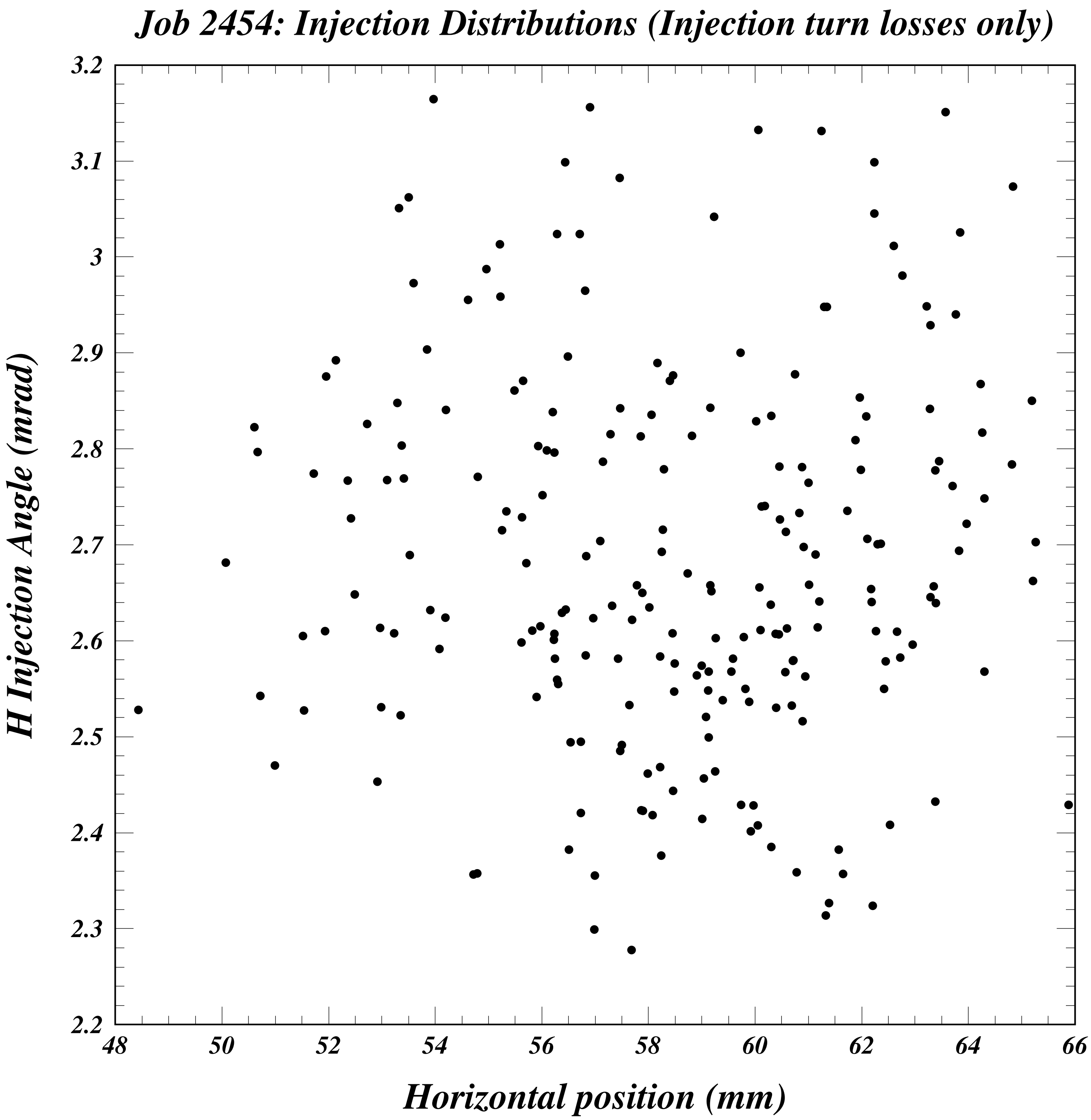
Job 2454: Injection Distributions (Injection turn losses only)



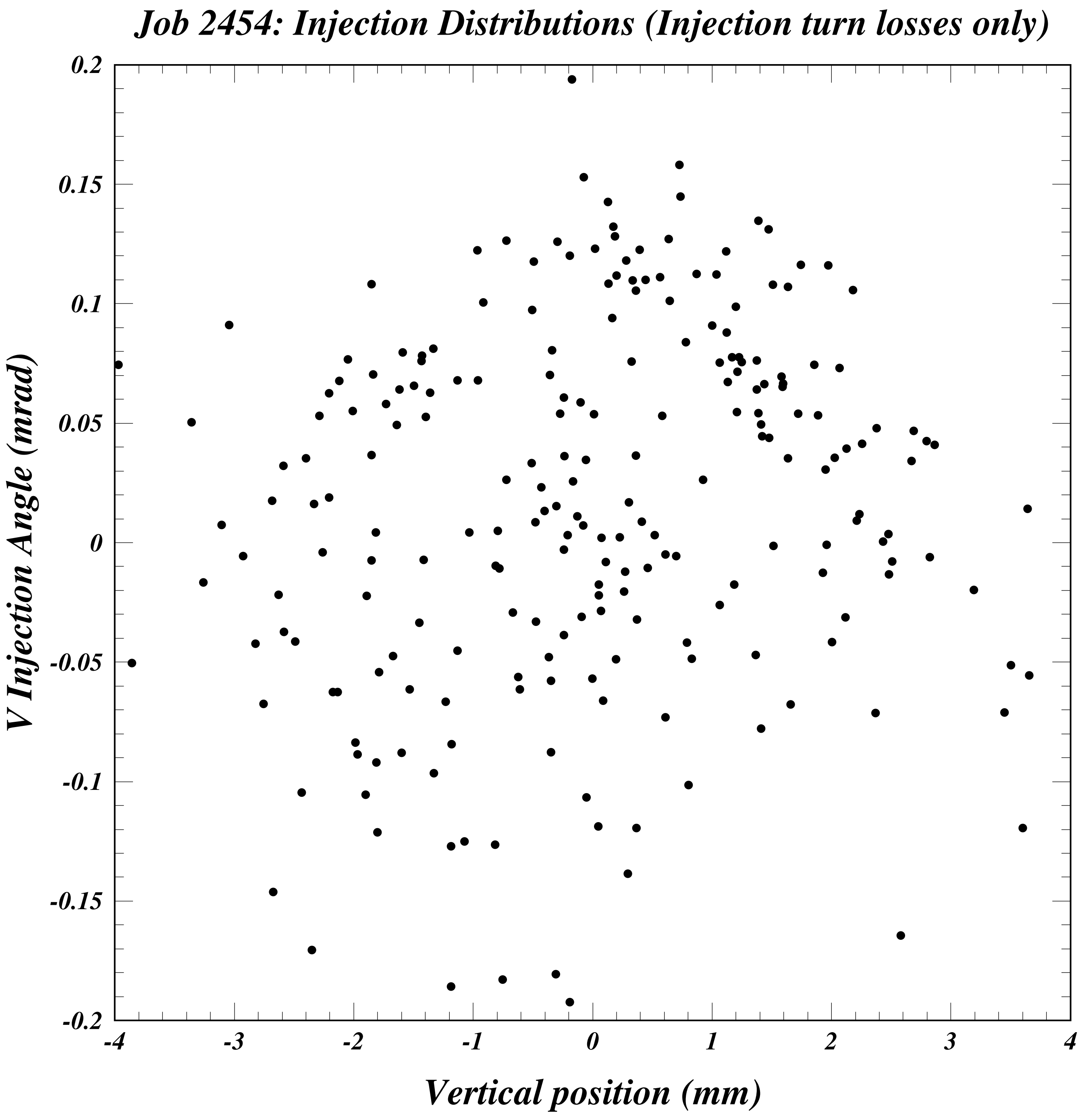

Job 2454: Injection Distributions (Injection turn losses only)
Vertical position (mrm)
Horizontal position (mm)
4
3
2
1
0
-1
-2
-3
-4
48
50
52
54
56
58
60
62
64
66

15/03/30 12.05



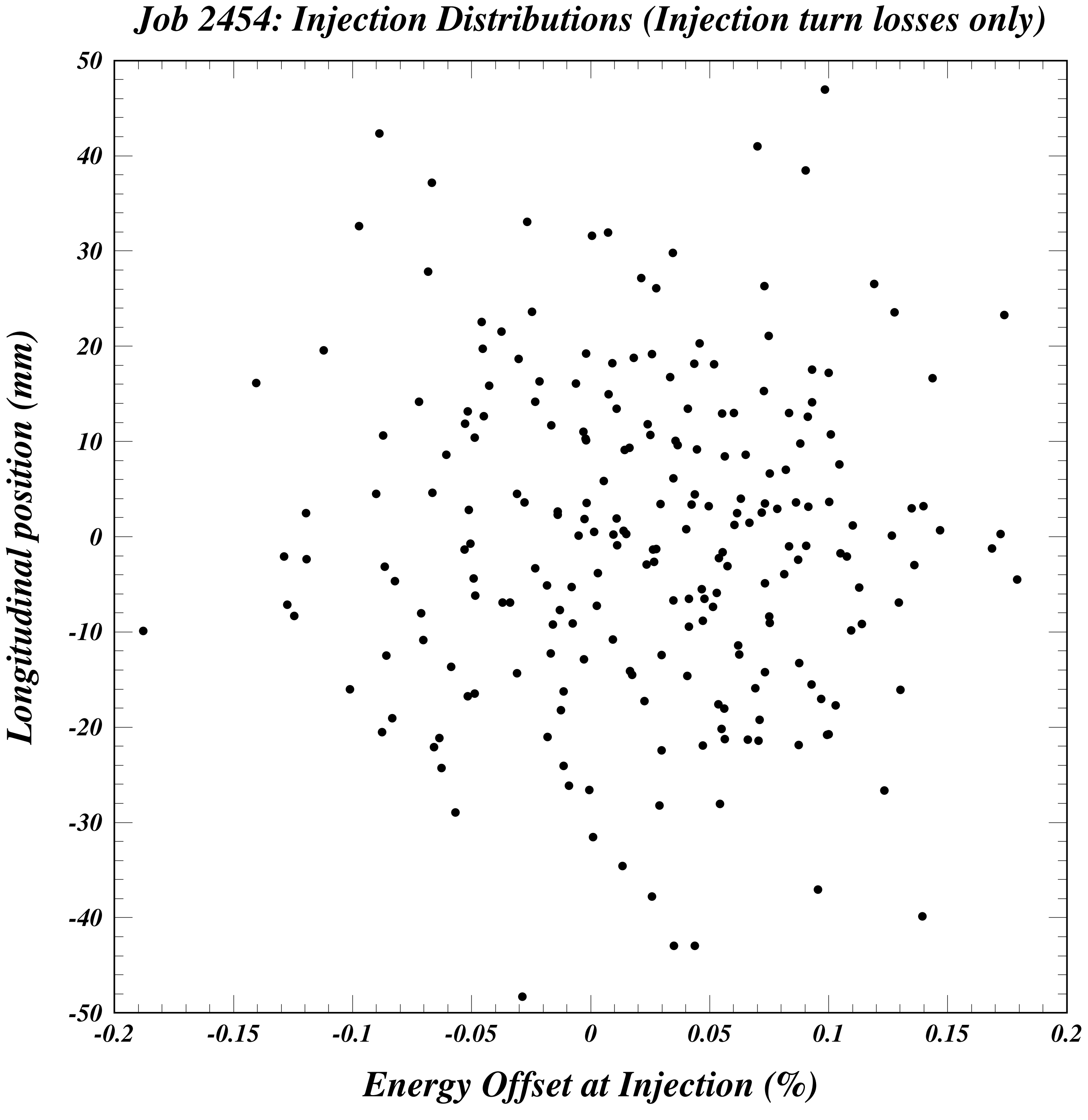
Job 2454: Injection Distributions (Injection turn losses only)
H Injection Angle (mrad)
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
48
50
52
54
56
58
60
62
64
66
Horizontal position (mm)

15/03/30 12.05



Job 2454: Injection Distributions (Injection turn losses only)
V Injection Angle (mrad)
Vertical position (mm)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-4
-3
-2
-1
0
1
2
3
4

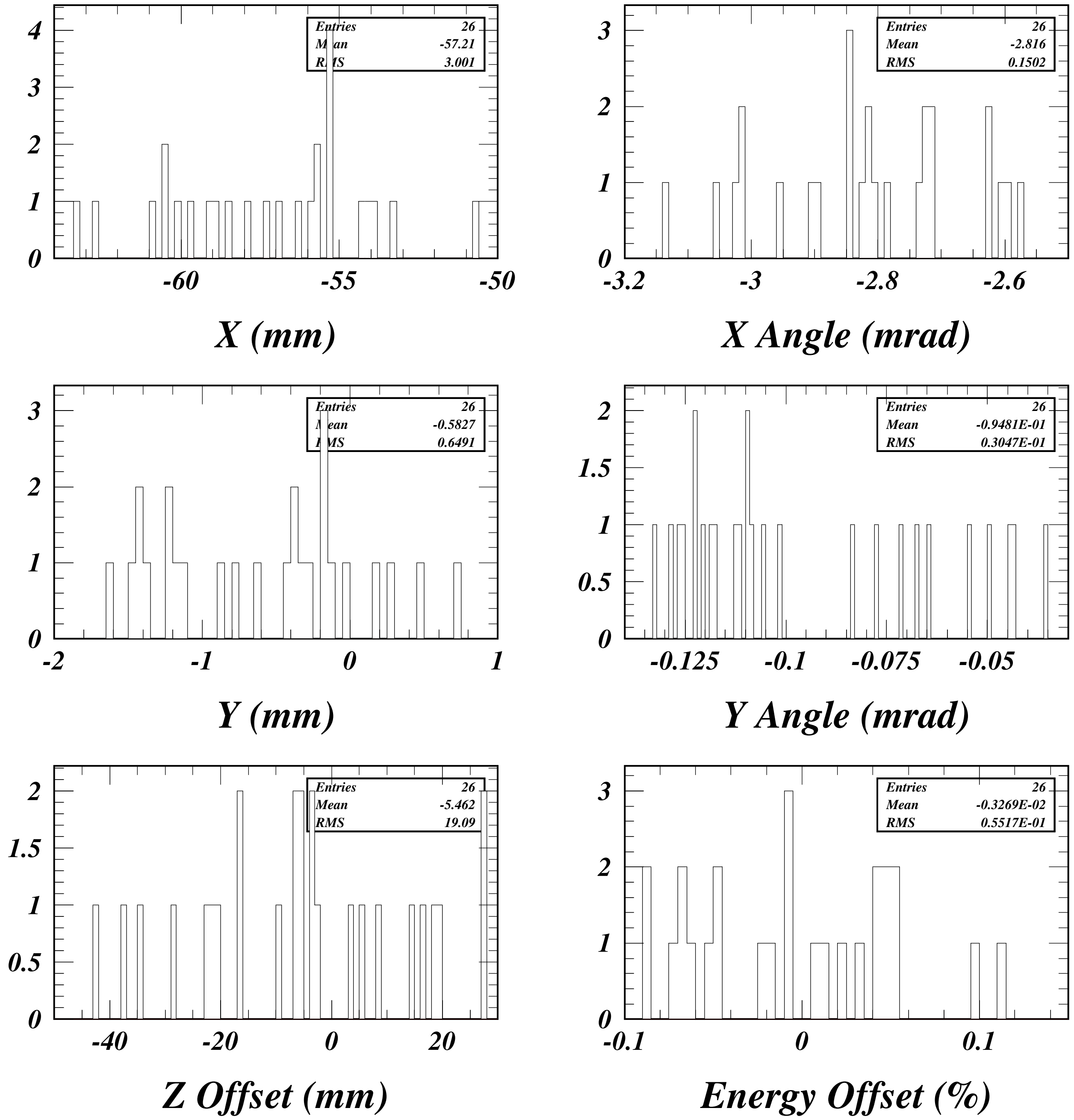
15/03/30 12.05



Job 2454: Injection Distributions (Injection turn losses only)
Longitudinal position (mm)
Energy Offset at Injection (%)
50
40
30
20
10
0
-10
-20
-30
-40
-50
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2

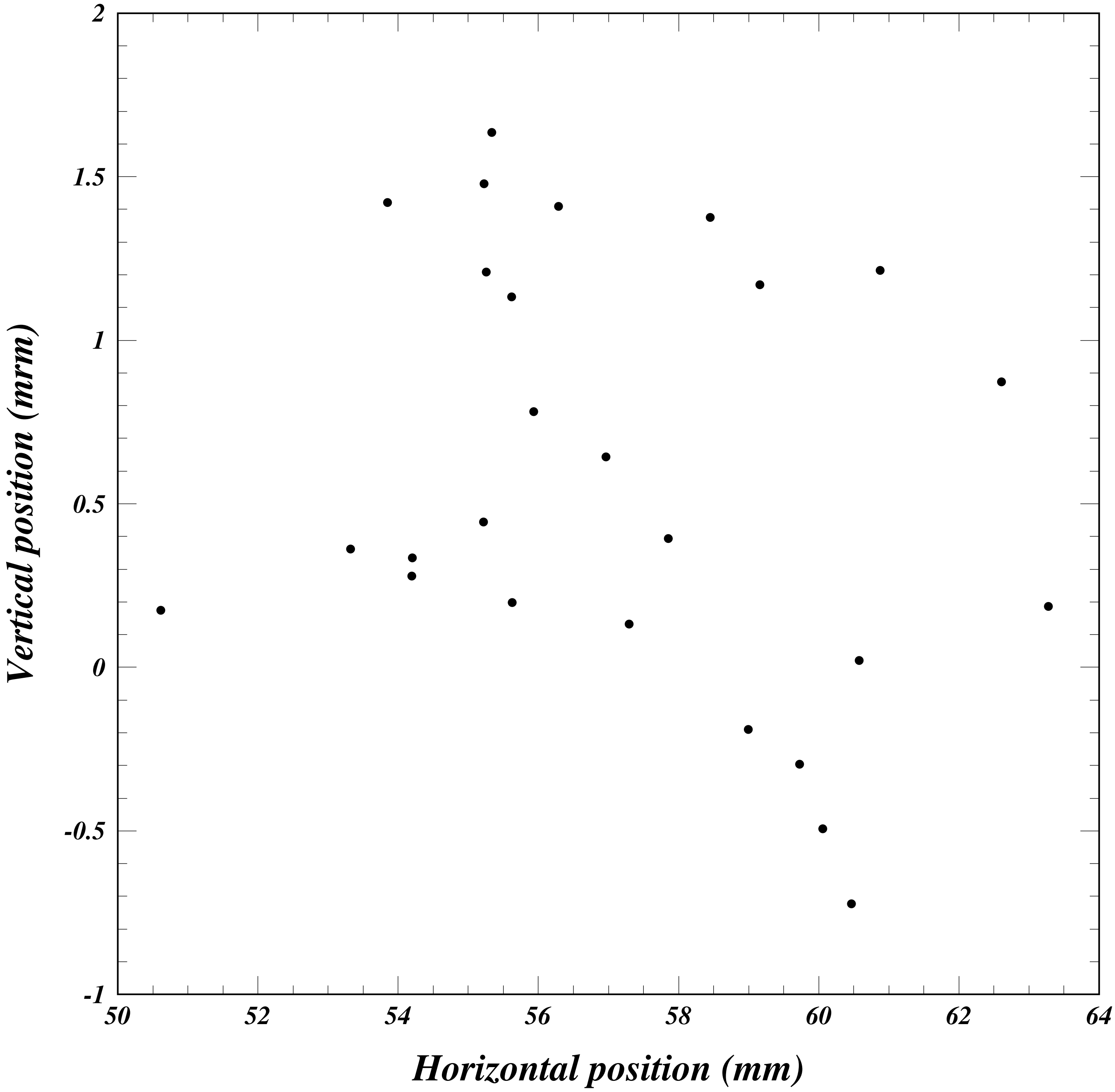
15/03/30 12.05

Job 2454: Injection Distributions (Injection turn losses at undulator only)



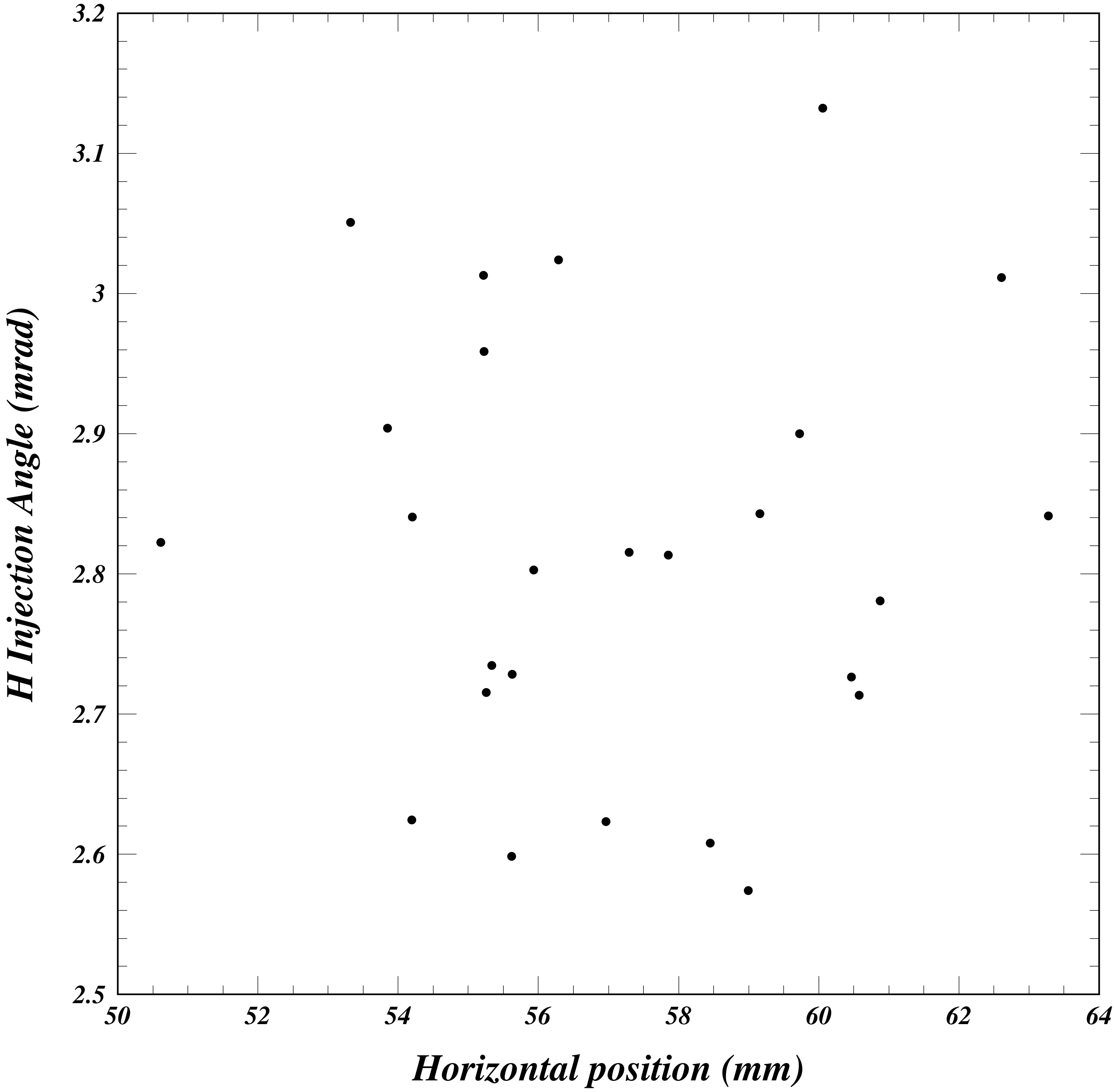
15/03/30 12.05

Job 2454: Injection Distributions (Injection turn losses at undulator only)



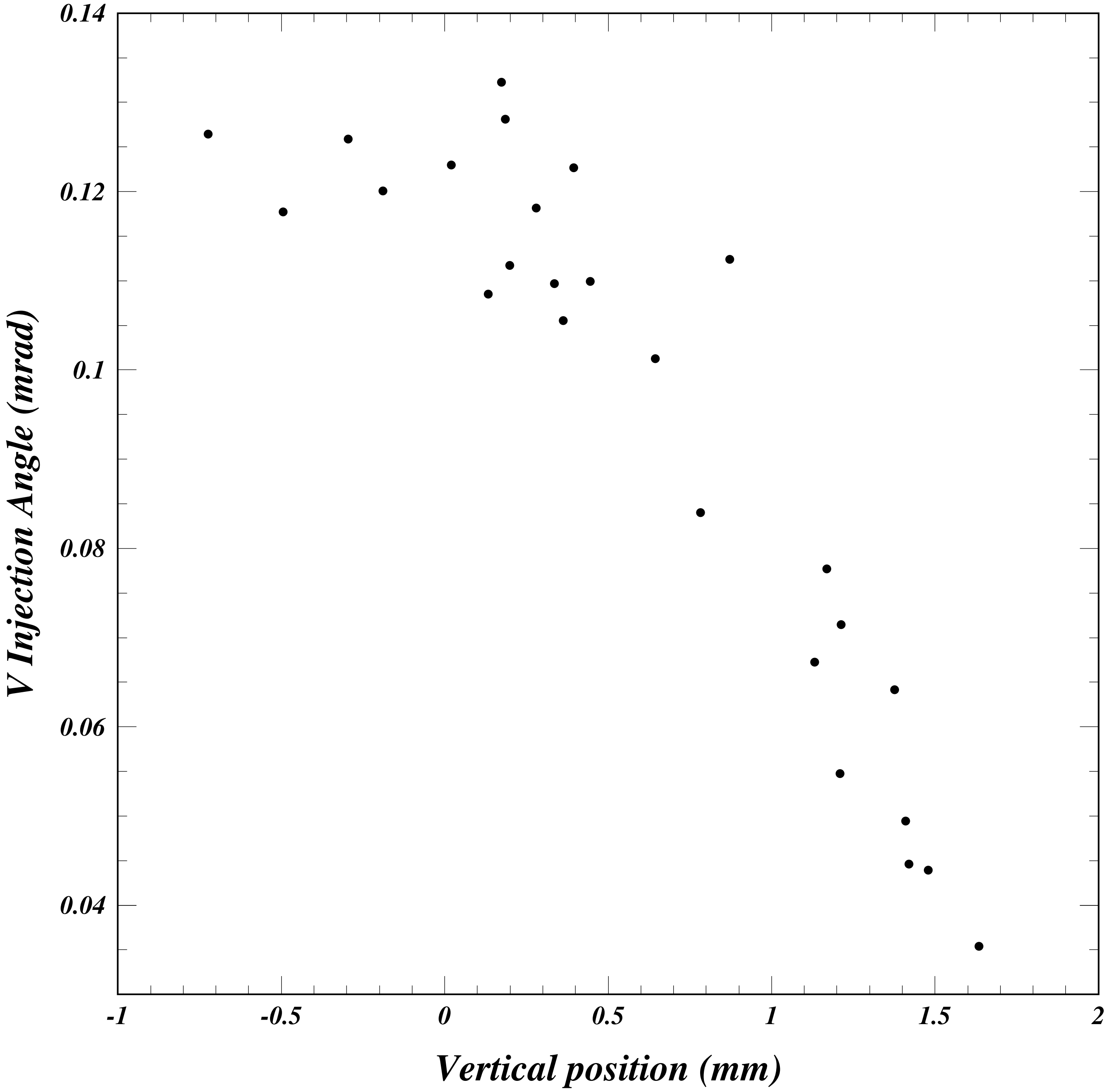
15/03/30 12.05

Job 2454: Injection Distributions (Injection turn losses at undulator only)

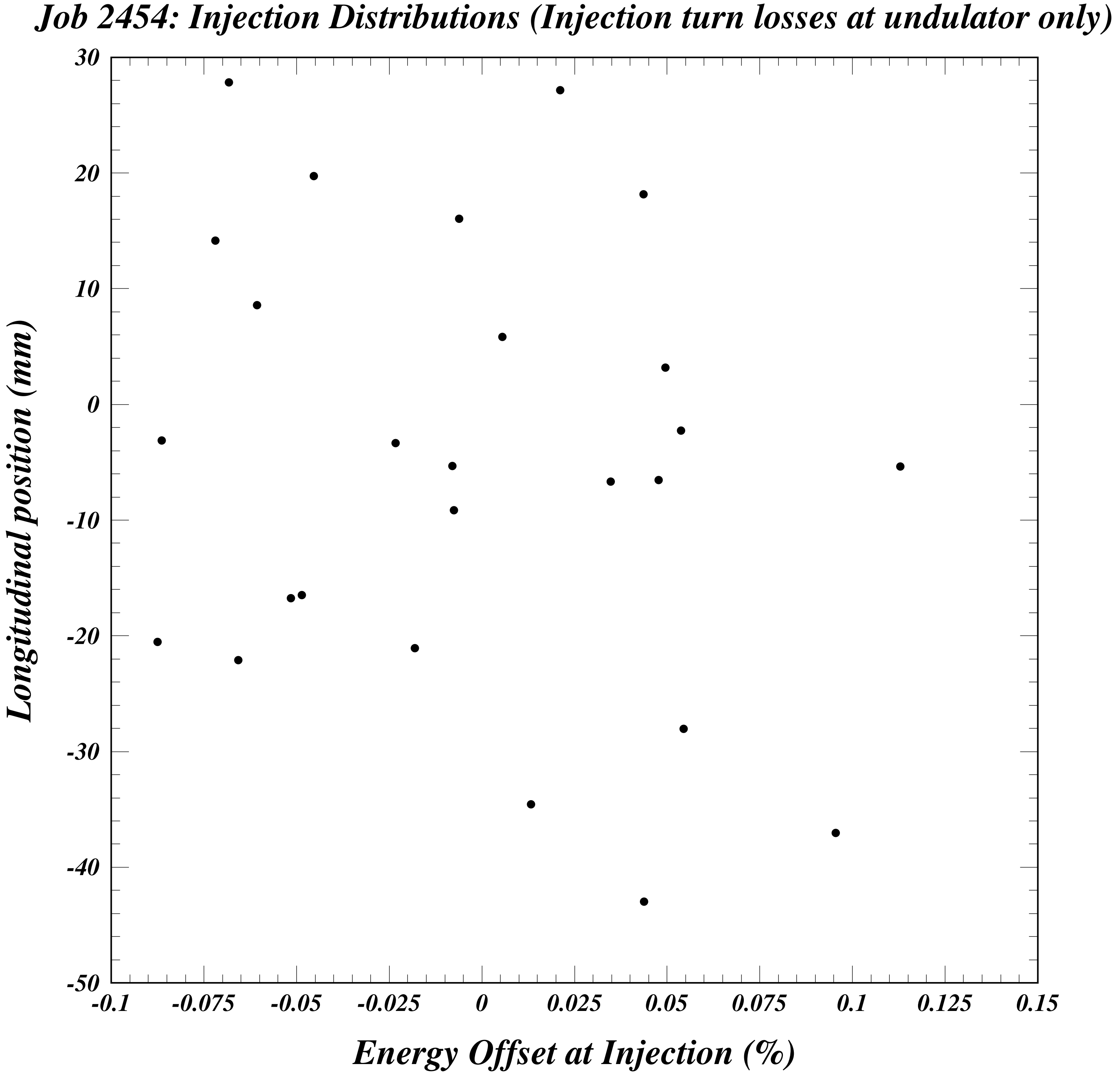


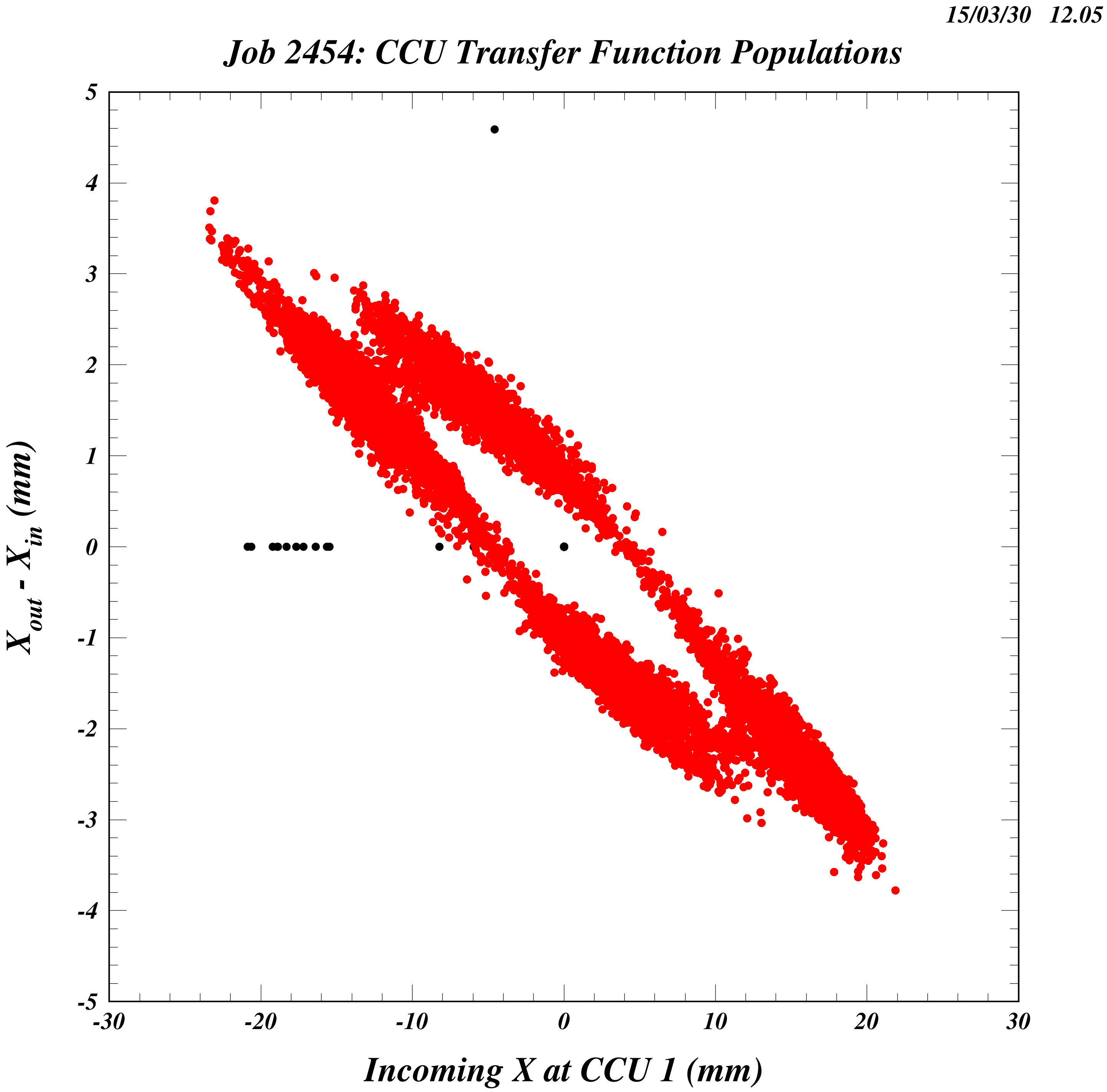
15/03/30 12.05

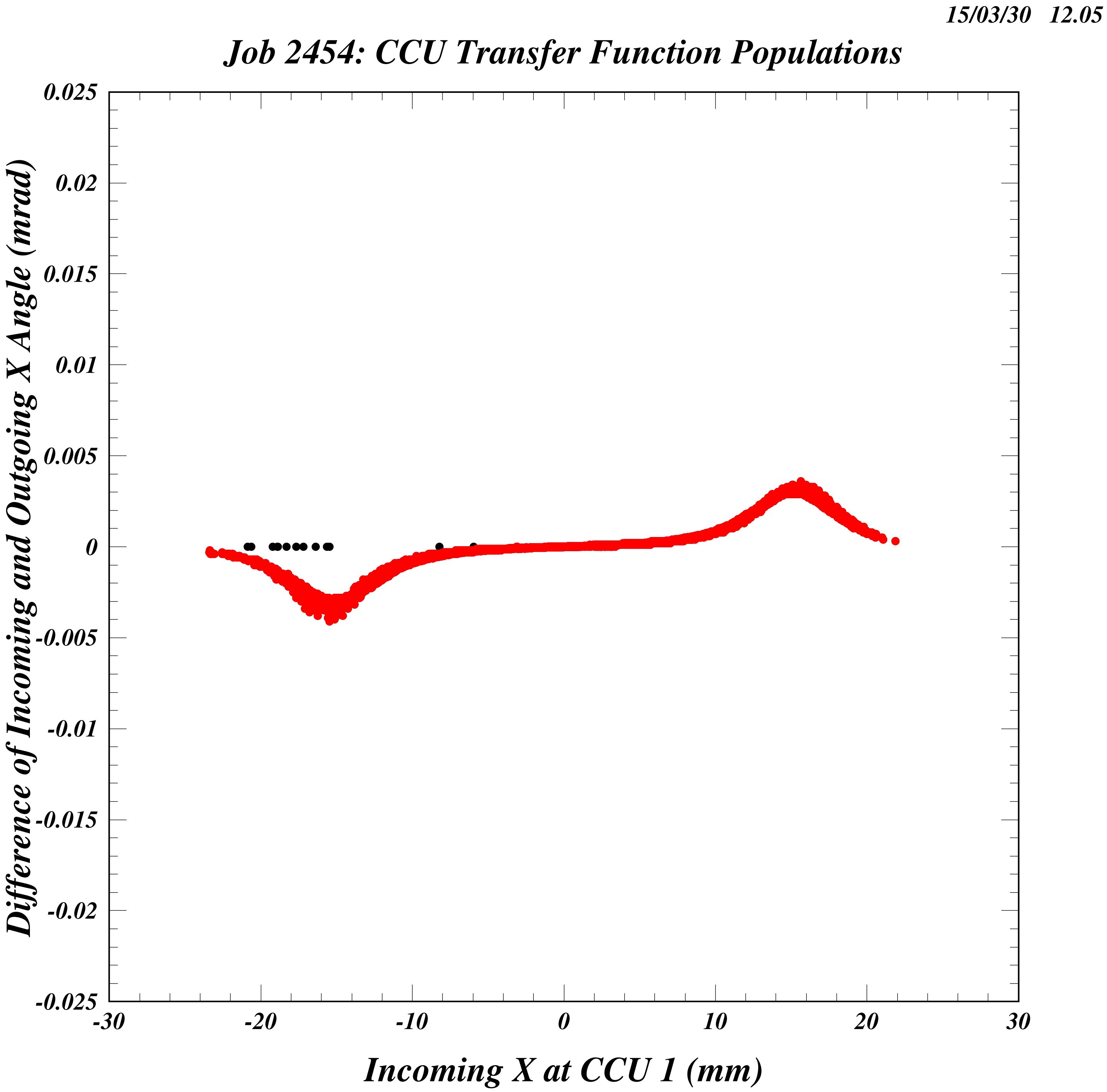
Job 2454: Injection Distributions (Injection turn losses at undulator only)



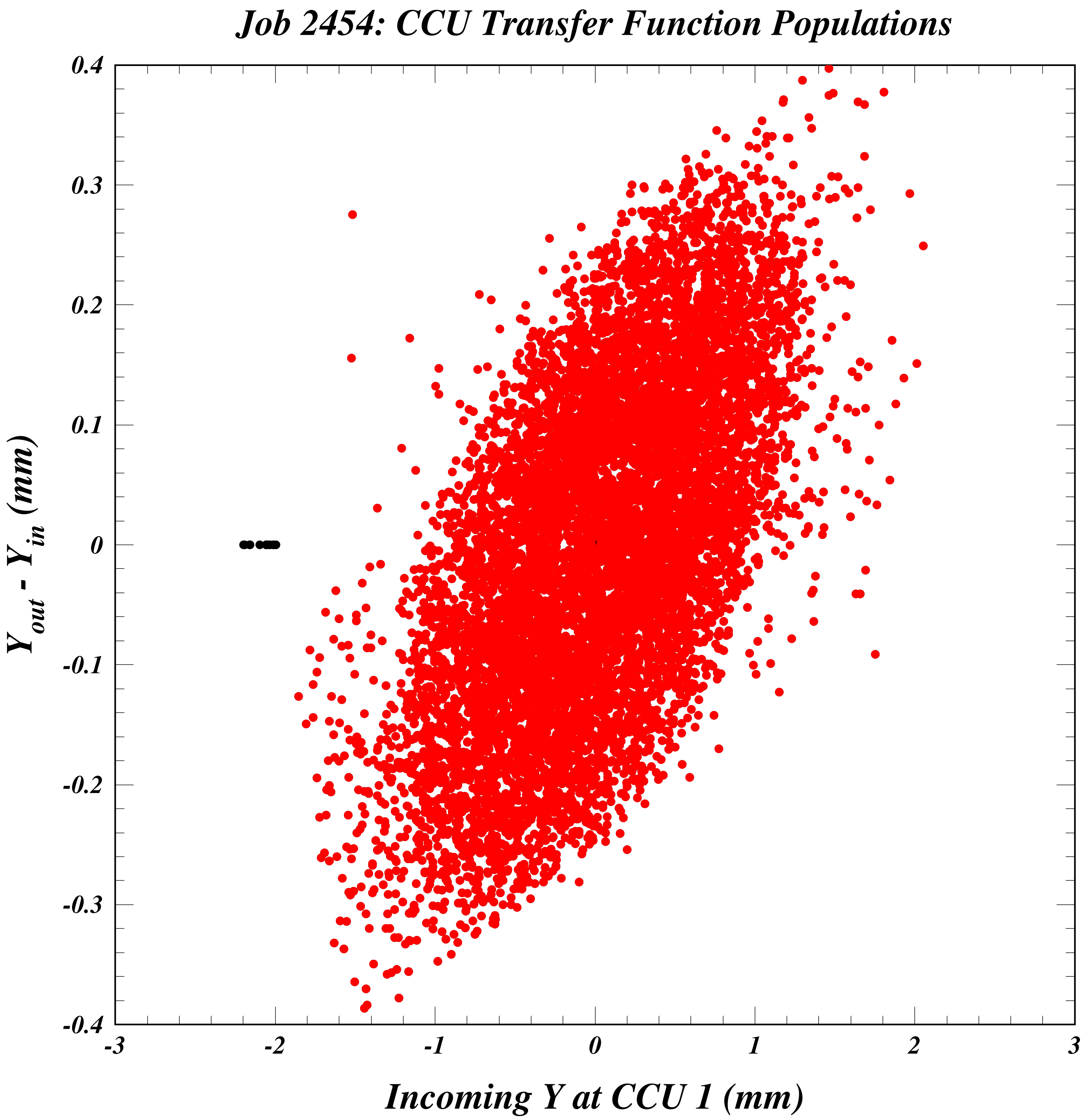
15/03/30 12.05

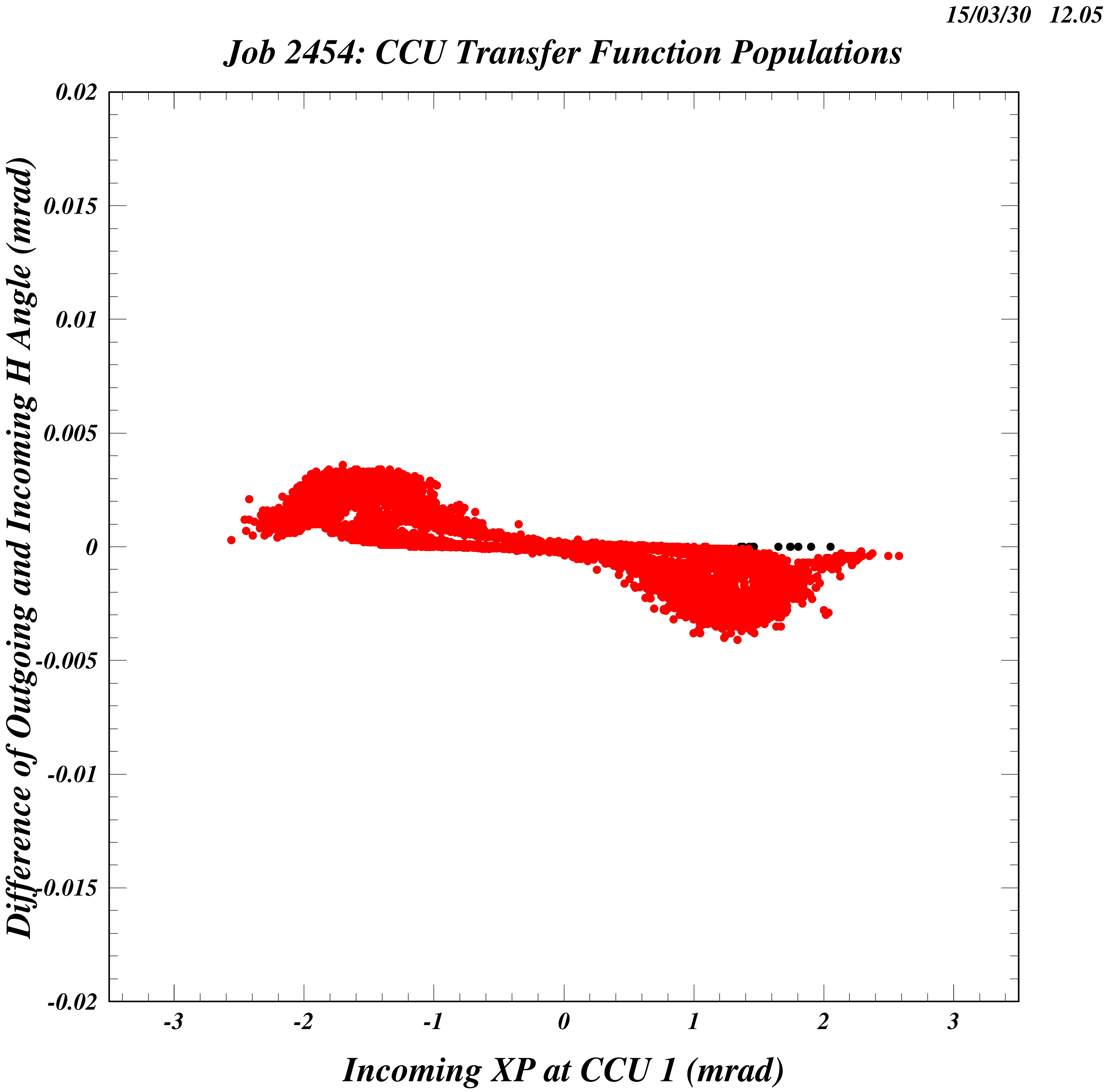

Job 2454: Injection Distributions (Injection turn losses at undulator only)
Longitudinal position (mm)
30
20
10
0
-10
-20
-30
-40
-50
-0.1
-0.075
-0.05
-0.025
0
0.025
0.05
0.075
0.1
0.125
0.15
Energy Offset at Injection (%)

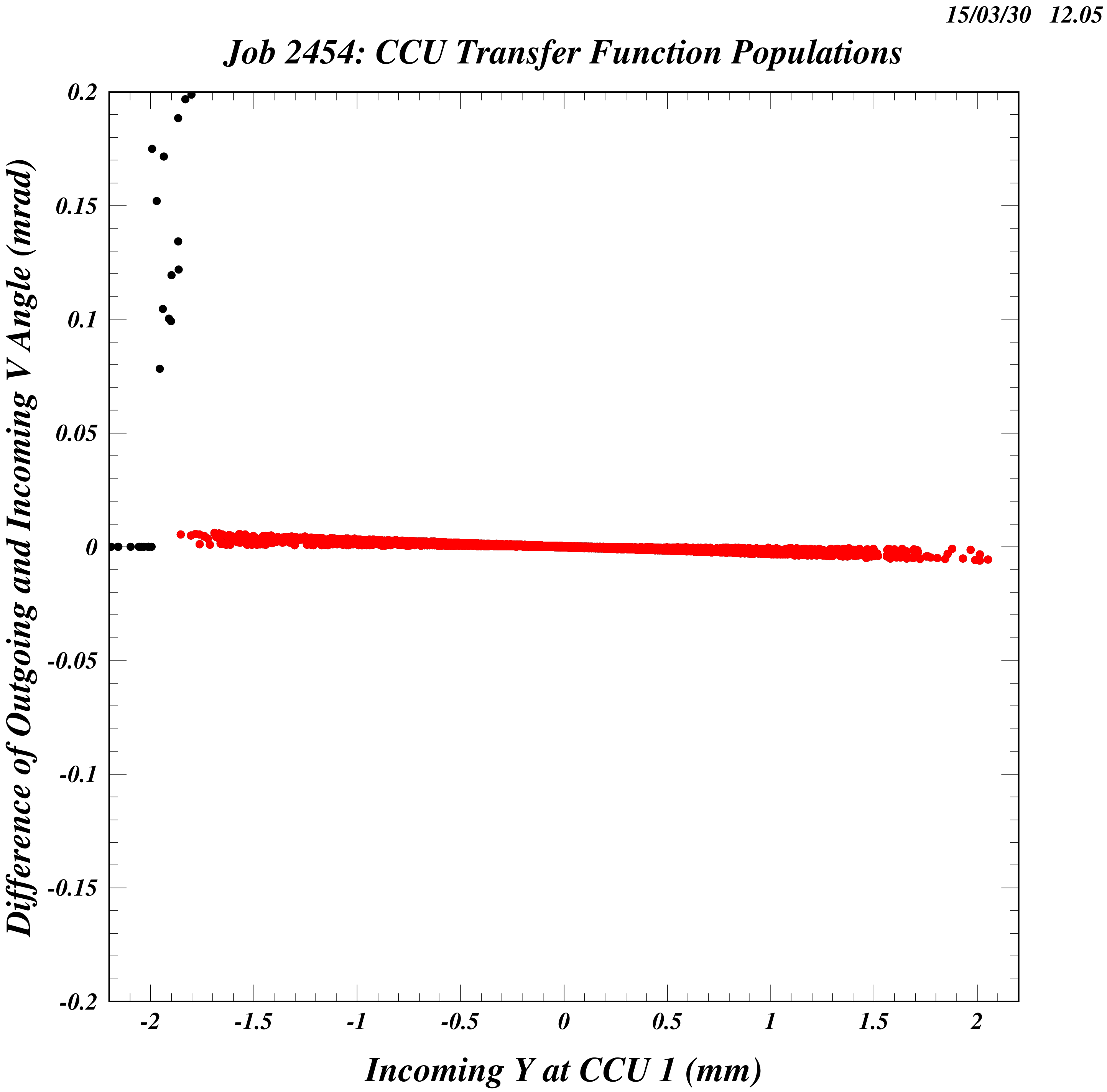

15/03/30 12.05
Job 2454: CCU Transfer Function Populations
$X_{out} - X_{in}$ (mm)
Incoming X at CCU 1 (mm)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-30
-20
-10
0
10
20
30


15/03/30 12.05
Job 2454: CCU Transfer Function Populations
Difference of Incoming and Outgoing X Angle (mrad)
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
-30
-20
-10
0
10
20
30
Incoming X at CCU 1 (mm)

15/03/30 12.05


Job 2454: CCU Transfer Function Populations
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-3
-2
-1
0
1
2
3
Y_{out} - Y_{in} (mm)
Incoming Y at CCU 1 (mm)


15/03/30 12.05
Job 2454: CCU Transfer Function Populations
Difference of Outgoing and Incoming H Angle (mrad)
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-3
-2
-1
0
1
2
3
Incoming XP at CCU 1 (mrad)


15/03/30 12.05
Job 2454: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
Incoming Y at CCU 1 (mm)

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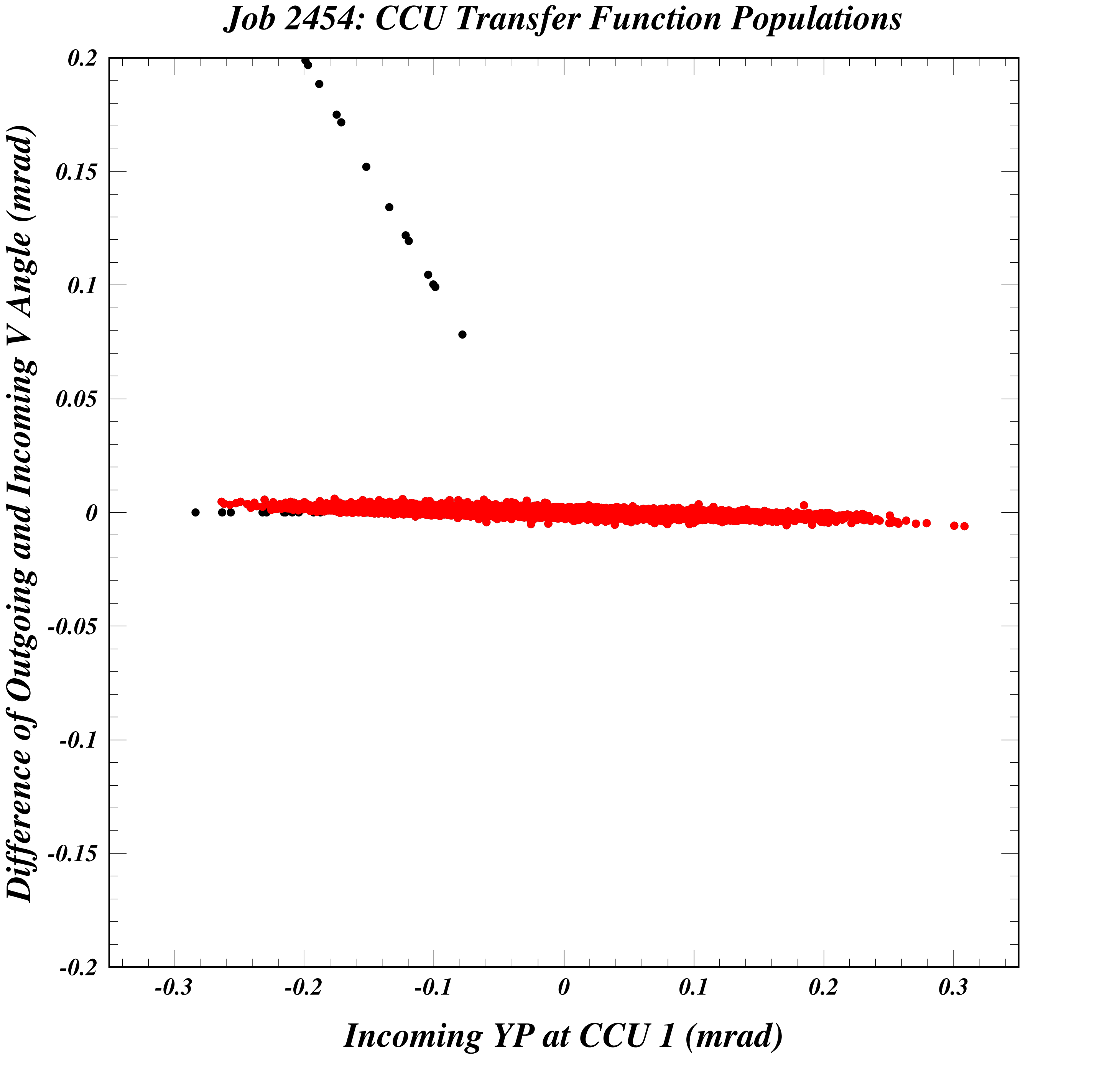
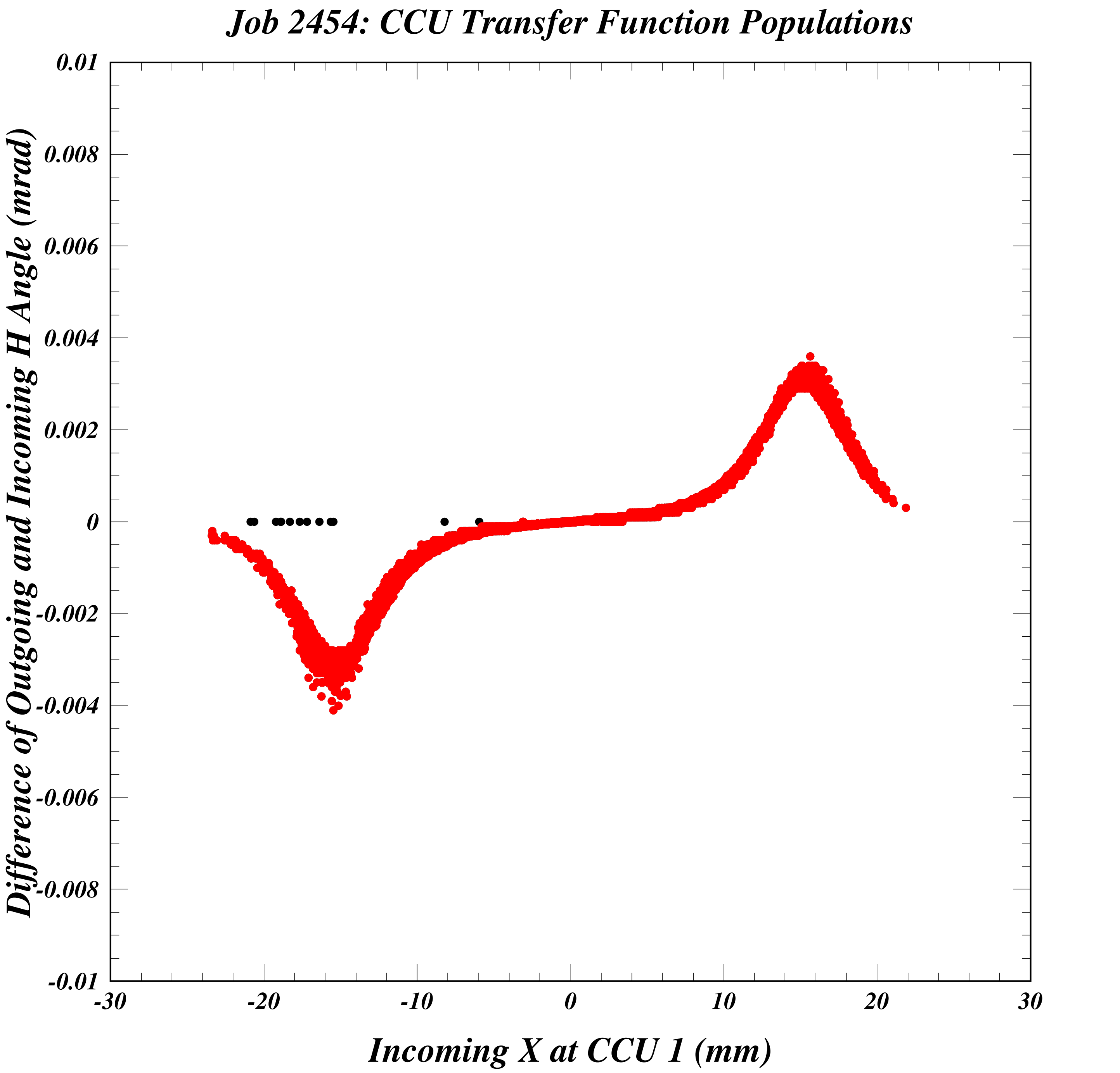
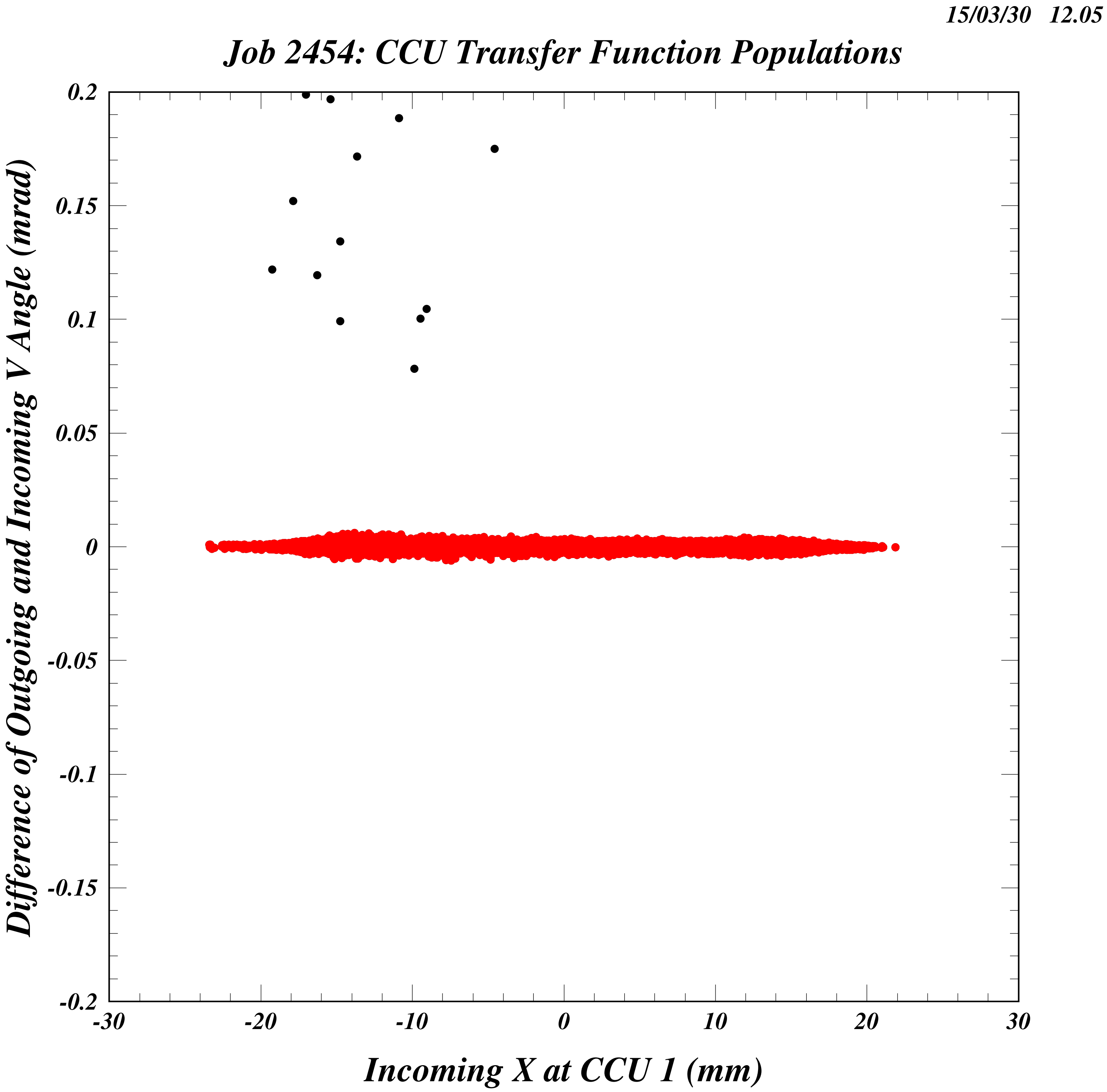
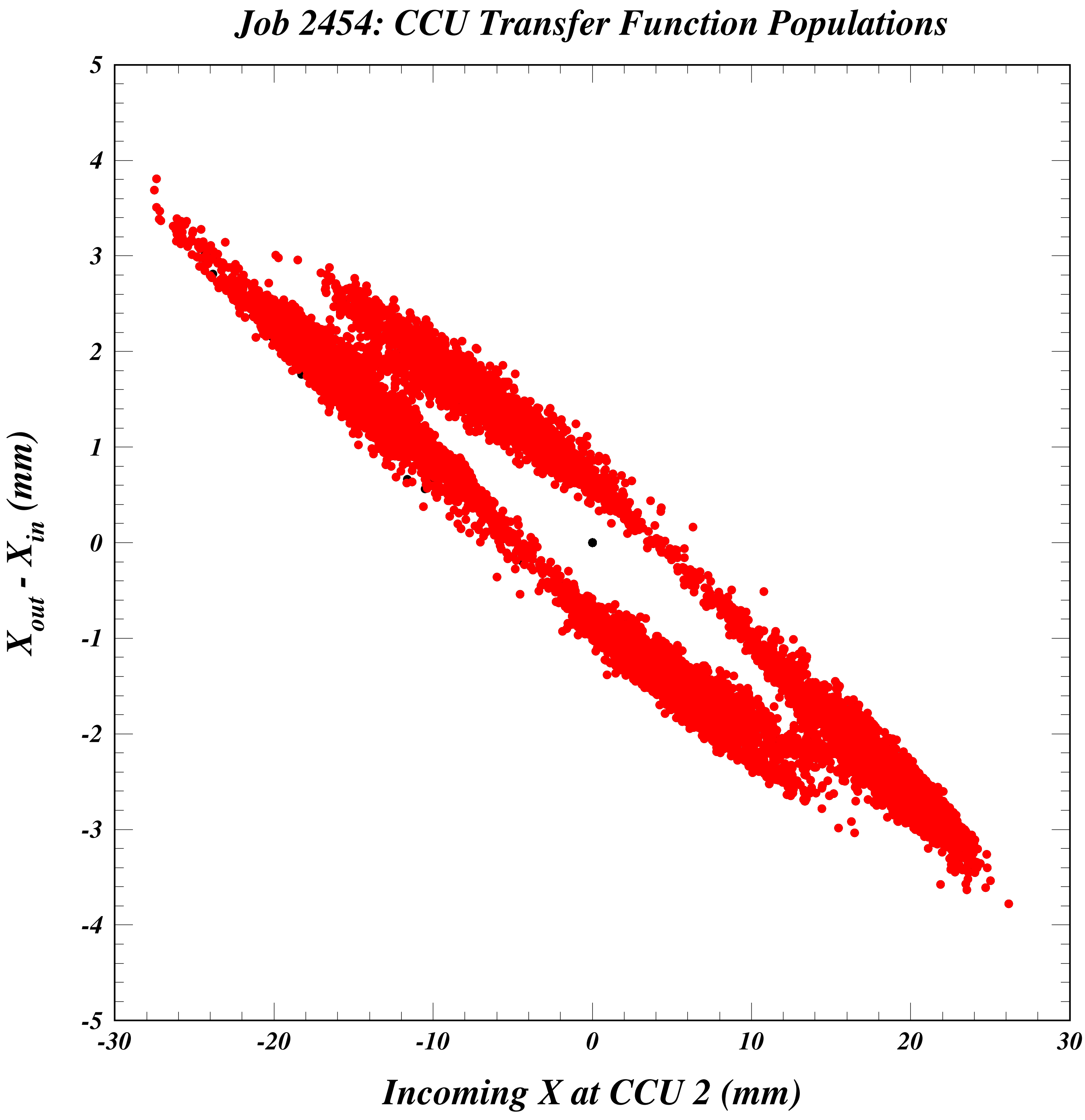

Job 2454: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
Incoming YP at CCU 1 (mrad)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.3
-0.2
-0.1
0
0.1
0.2
0.3



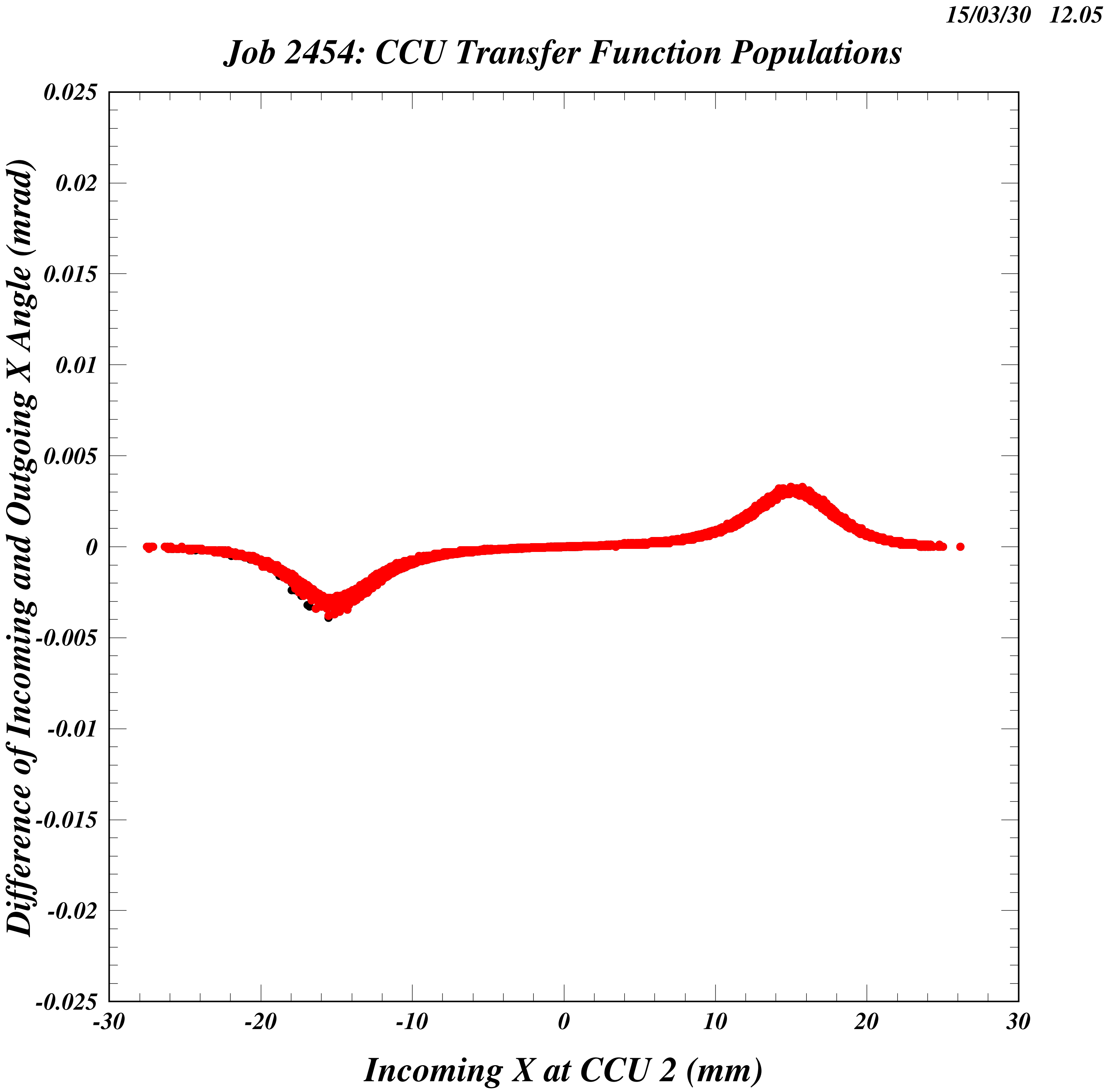
Job 2454: CCU Transfer Function Populations
0.01
0.008
0.006
0.004
0.002
0
-0.002
-0.004
-0.006
-0.008
-0.01
-30
-20
-10
0
10
20
30
Difference of Outgoing and Incoming H Angle (mrad)
Incoming X at CCU 1 (mm)


15/03/30 12.05
Job 2454: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-30
-20
-10
0
10
20
30
Incoming X at CCU 1 (mm)

15/03/30 12.05



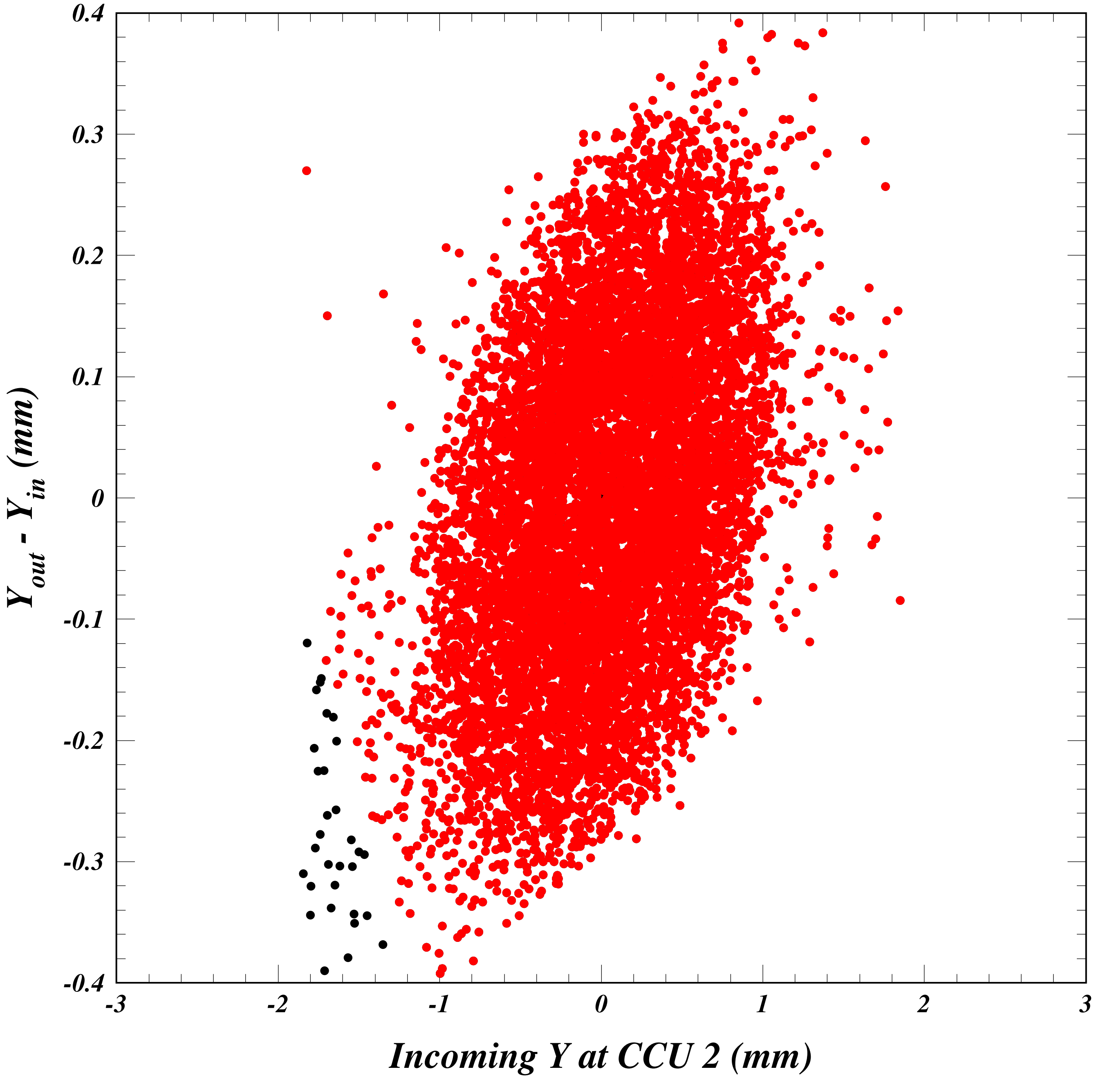
Job 2454: CCU Transfer Function Populations
5
4
3
2
1
0
-1
-2
-3
-4
-5
X_{out} - X_{in} (mm)
-30
-20
-10
0
10
20
30
Incoming X at CCU 2 (mm)

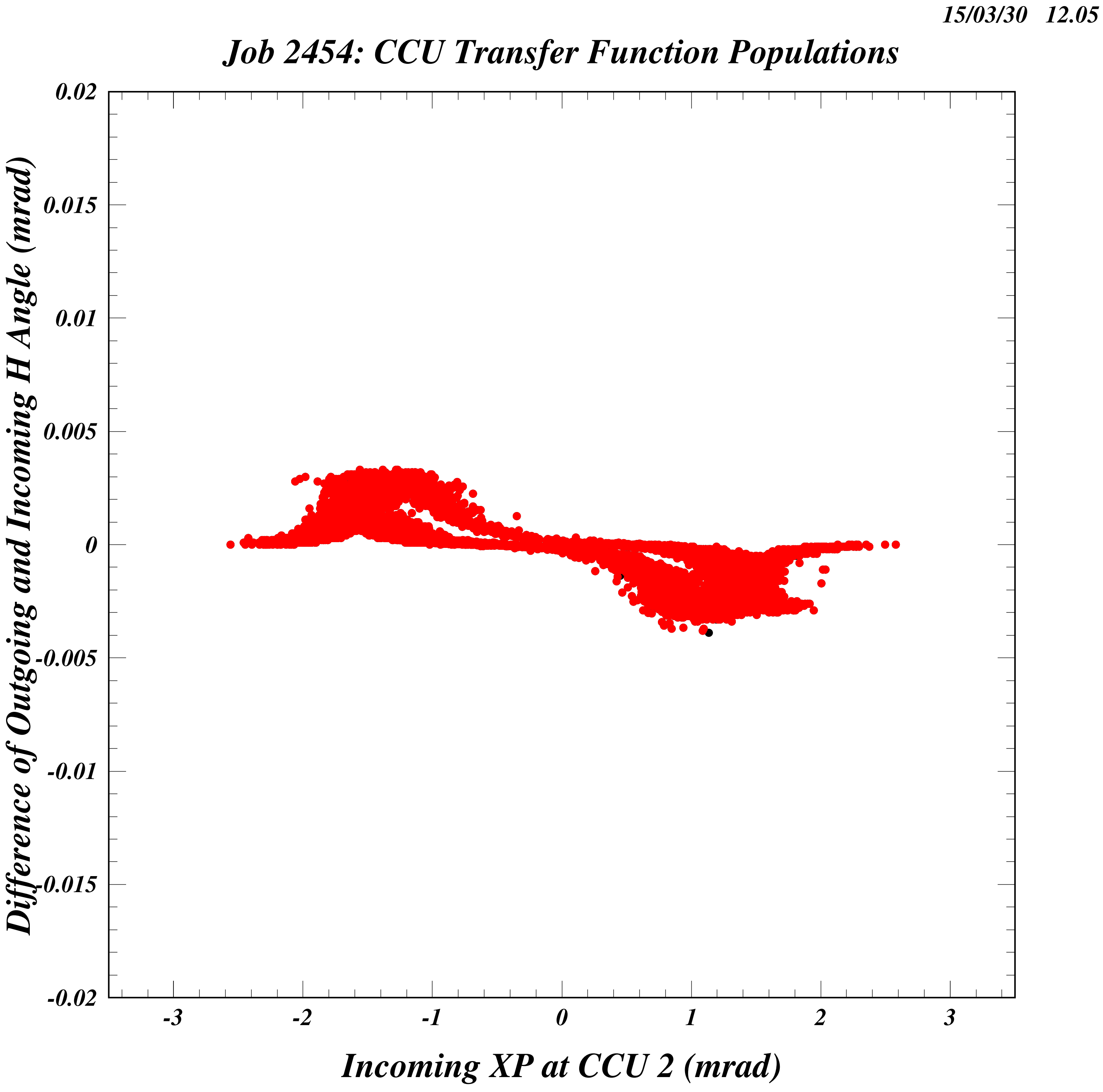


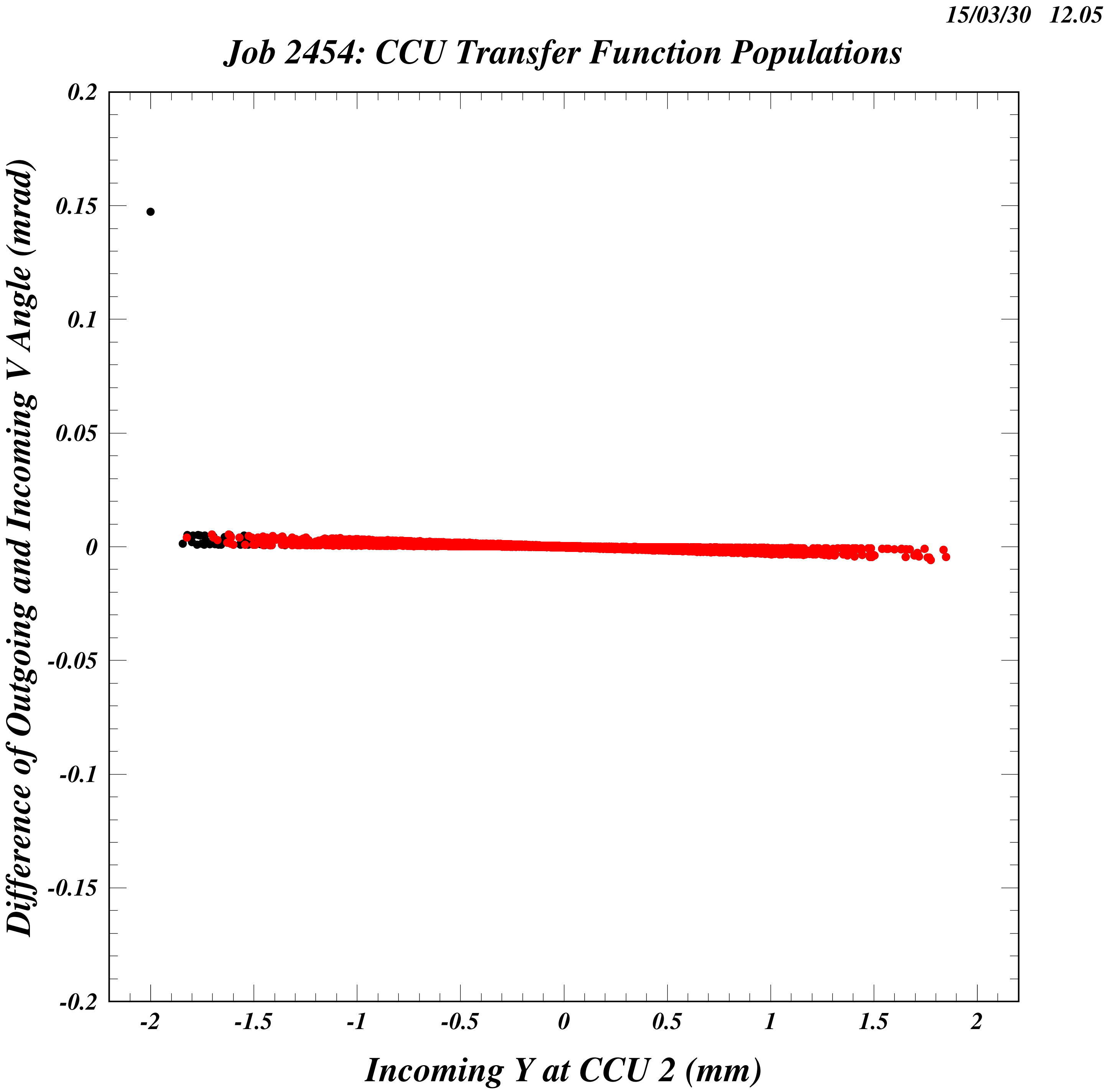
15/03/30 12.05
Job 2454: CCU Transfer Function Populations
Difference of Incoming and Outgoing X Angle (mrad)
Incoming X at CCU 2 (mm)
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
-30
-20
-10
0
10
20
30

15/03/30 12.05

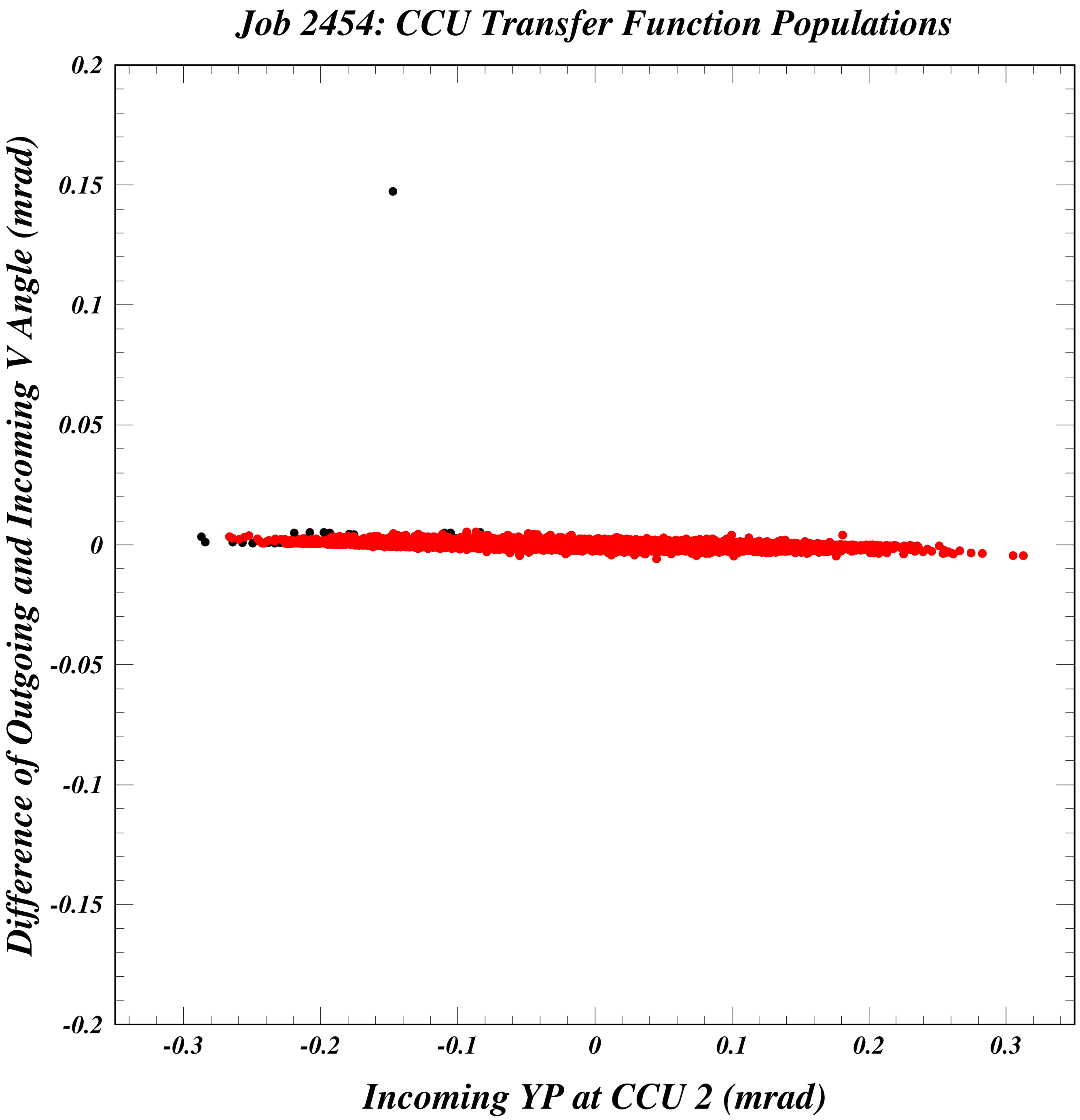
Job 2454: CCU Transfer Function Populations



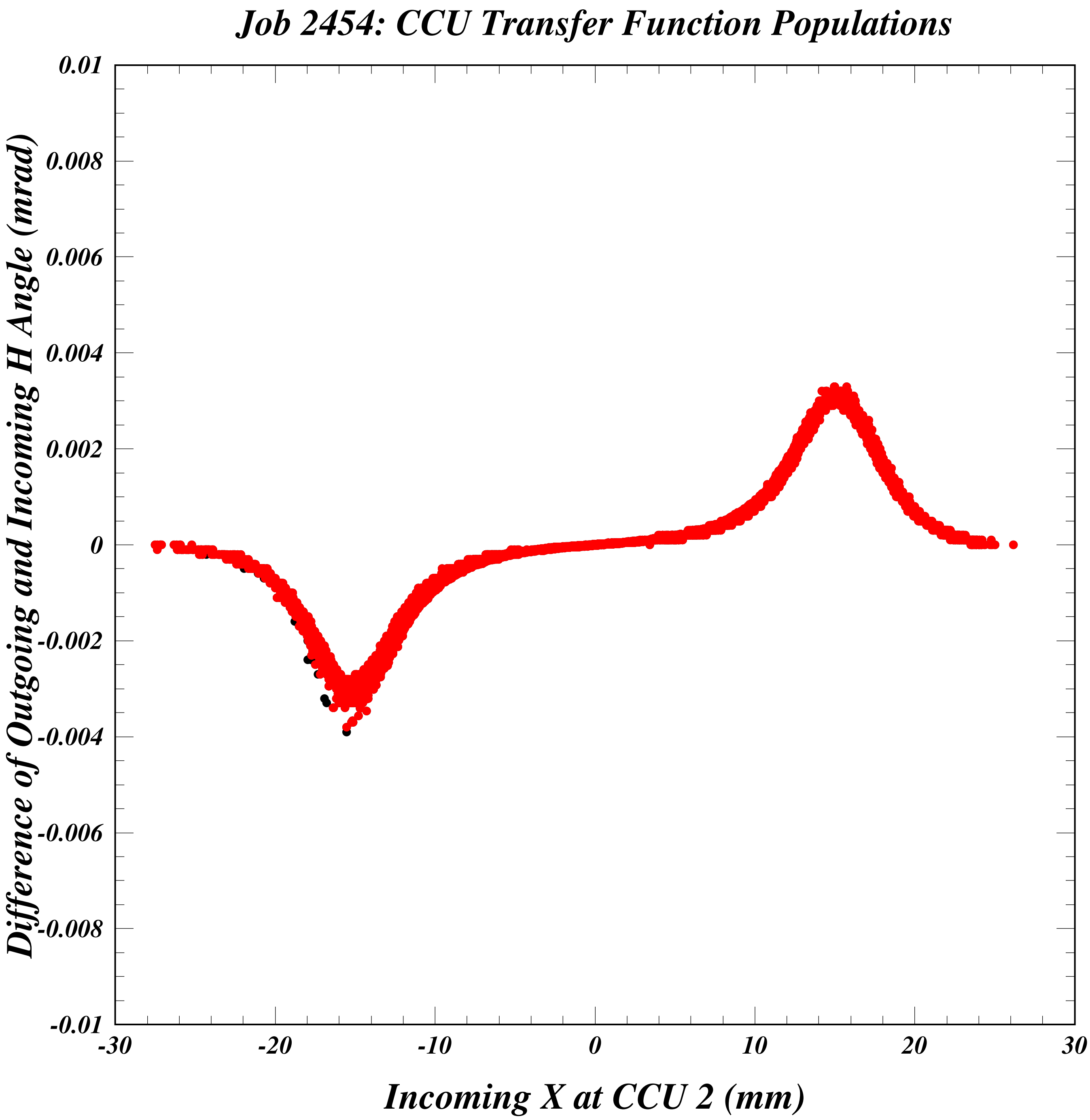

15/03/30 12.05
Job 2454: CCU Transfer Function Populations
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
Difference of Outgoing and Incoming H Angle (mrad)
-3
-2
-1
0
1
2
3
Incoming XP at CCU 2 (mrad)


15/03/30 12.05
Job 2454: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
Incoming Y at CCU 2 (mm)

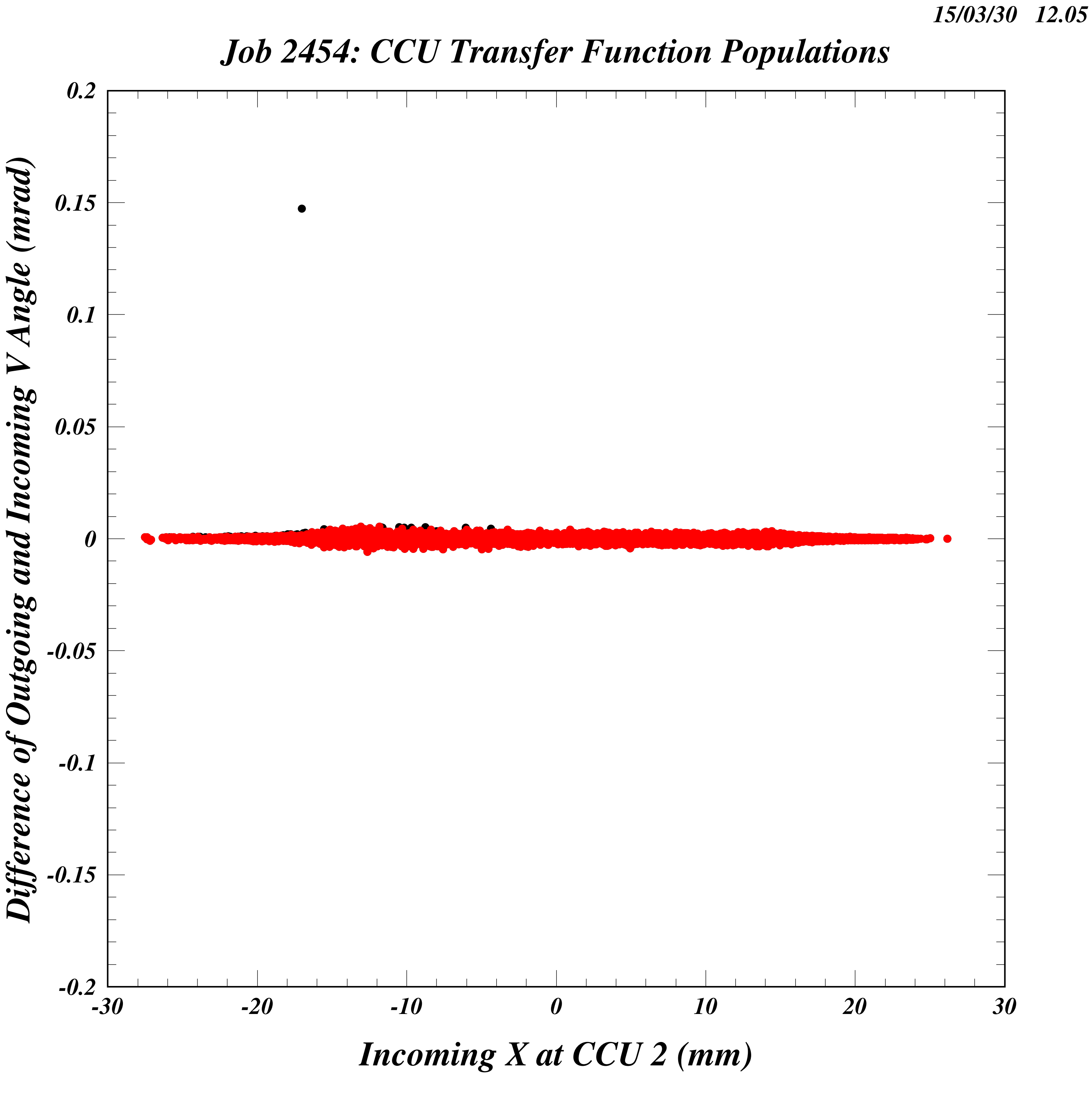
15/03/30 12.05


Job 2454: CCU Transfer Function Populations
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.3
-0.2
-0.1
0
0.1
0.2
0.3
Difference of Outgoing and Incoming V Angle (mrad)
Incoming YP at CCU 2 (mrad)

15/03/30 12.05



Job 2454: CCU Transfer Function Populations
Difference of Outgoing and Incoming H Angle (mrad)
0.01
0.008
0.006
0.004
0.002
0
-0.002
-0.004
-0.006
-0.008
-0.01
-30
-20
-10
0
10
20
30
Incoming X at CCU 2 (mm)


15/03/30 12.05
Job 2454: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-30
-20
-10
0
10
20
30
Incoming X at CCU 2 (mm)