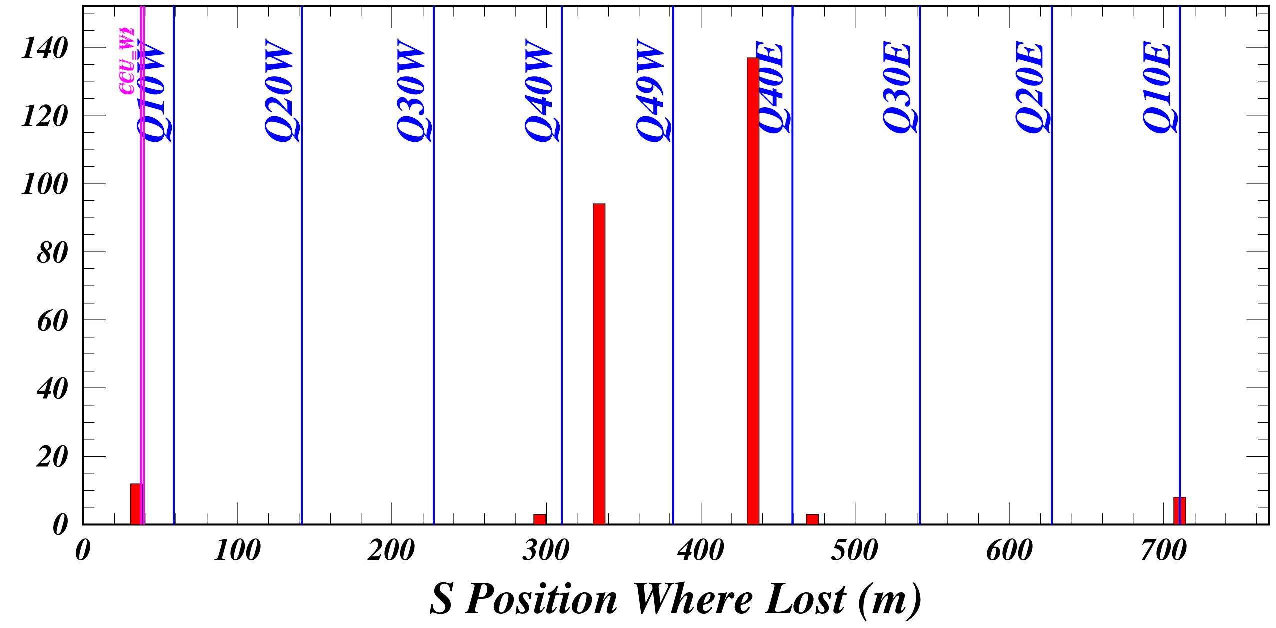
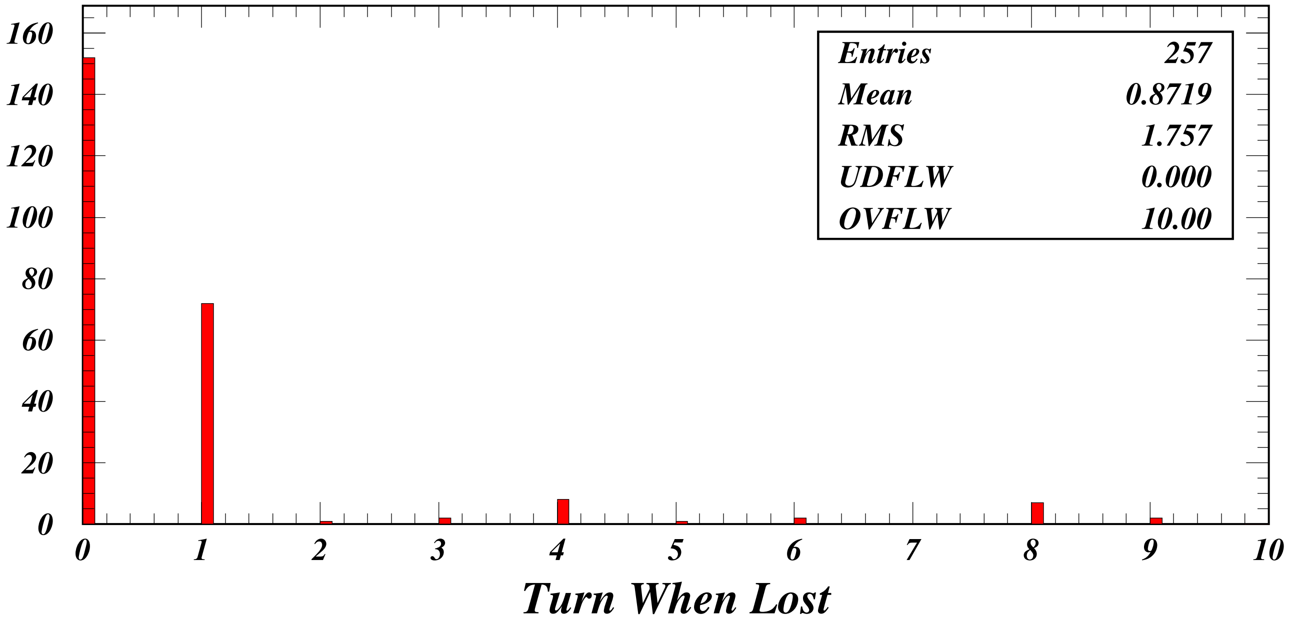
15/03/23 11.41

Job 2417





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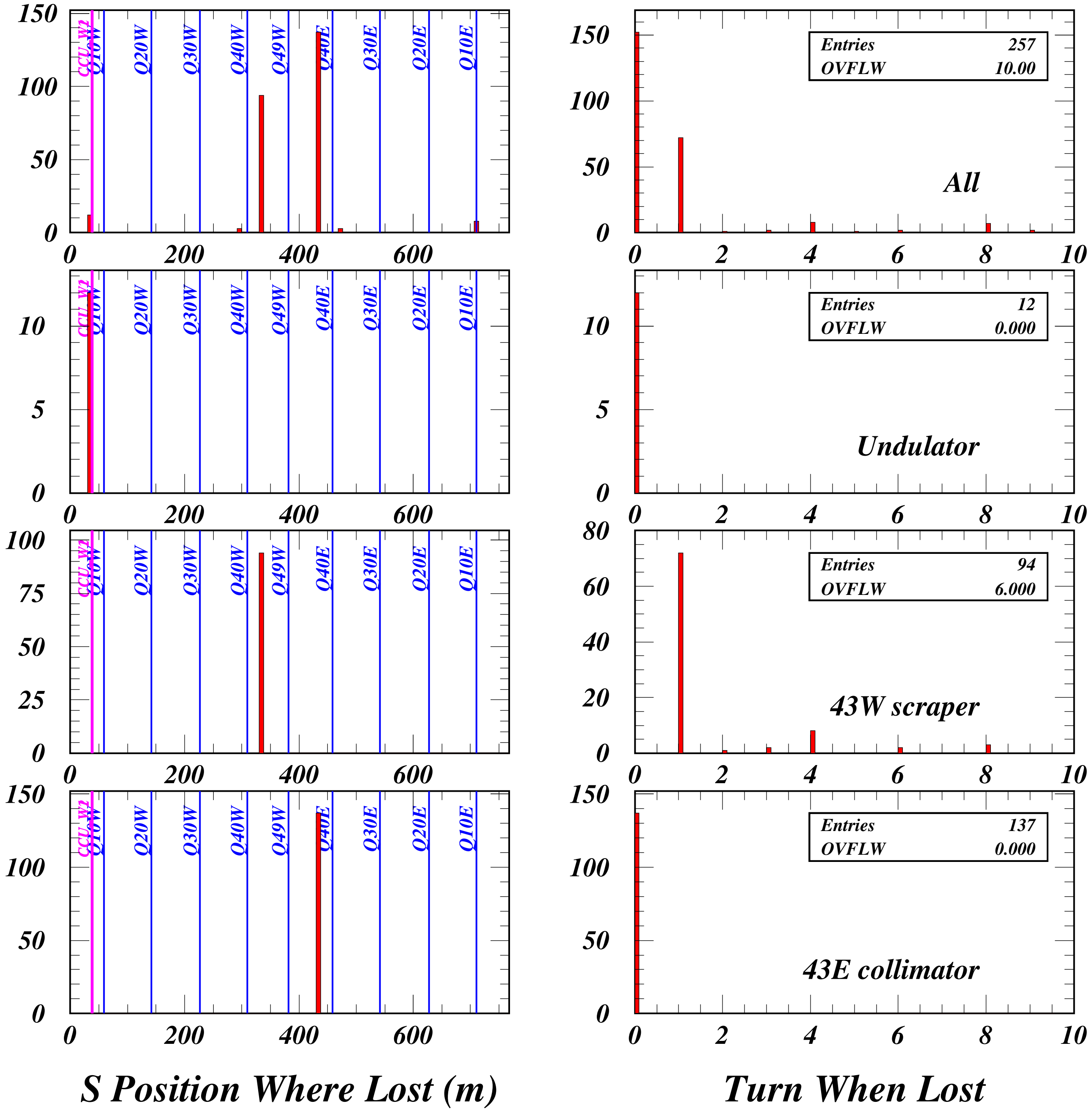
Job 2417



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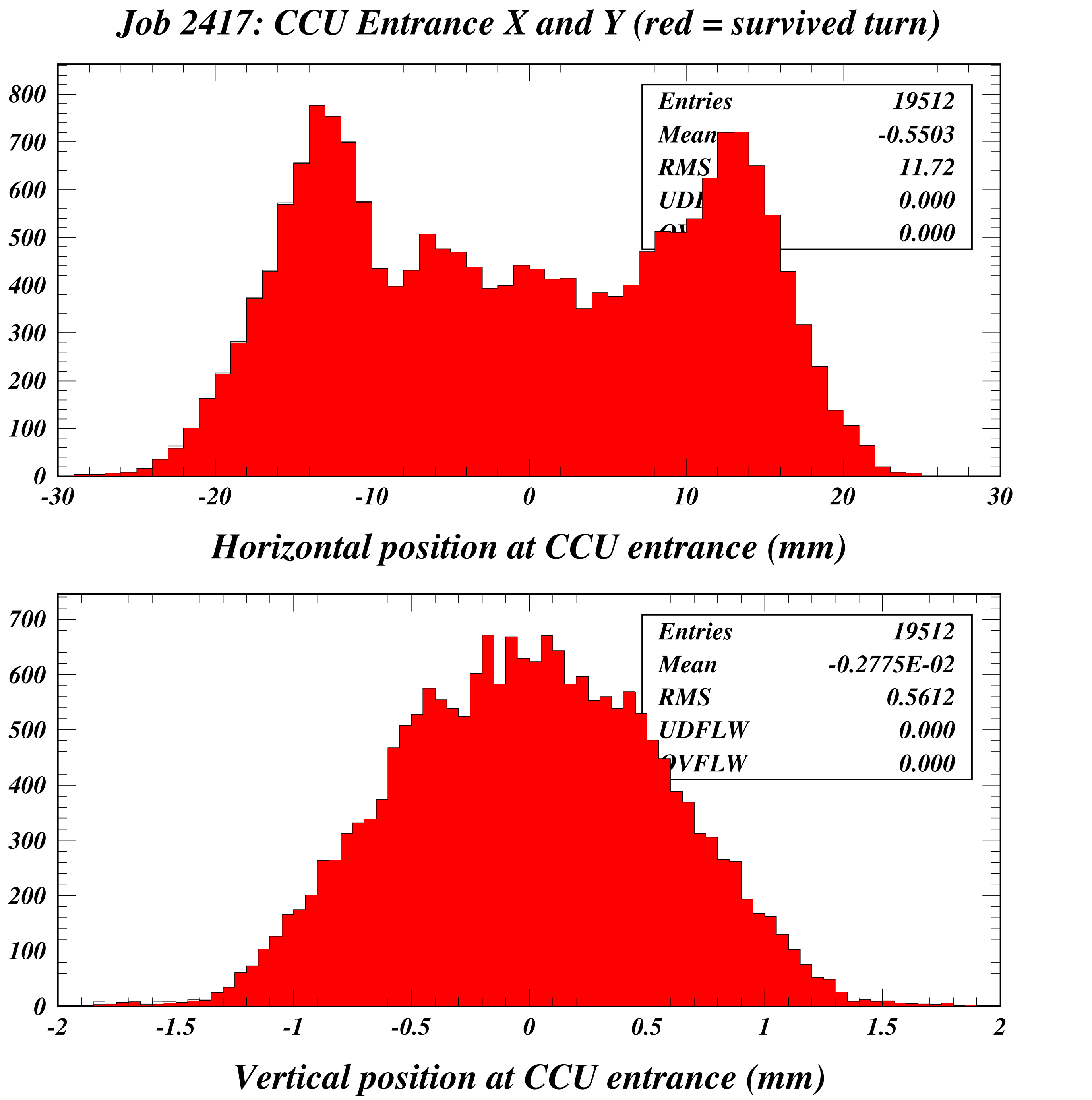
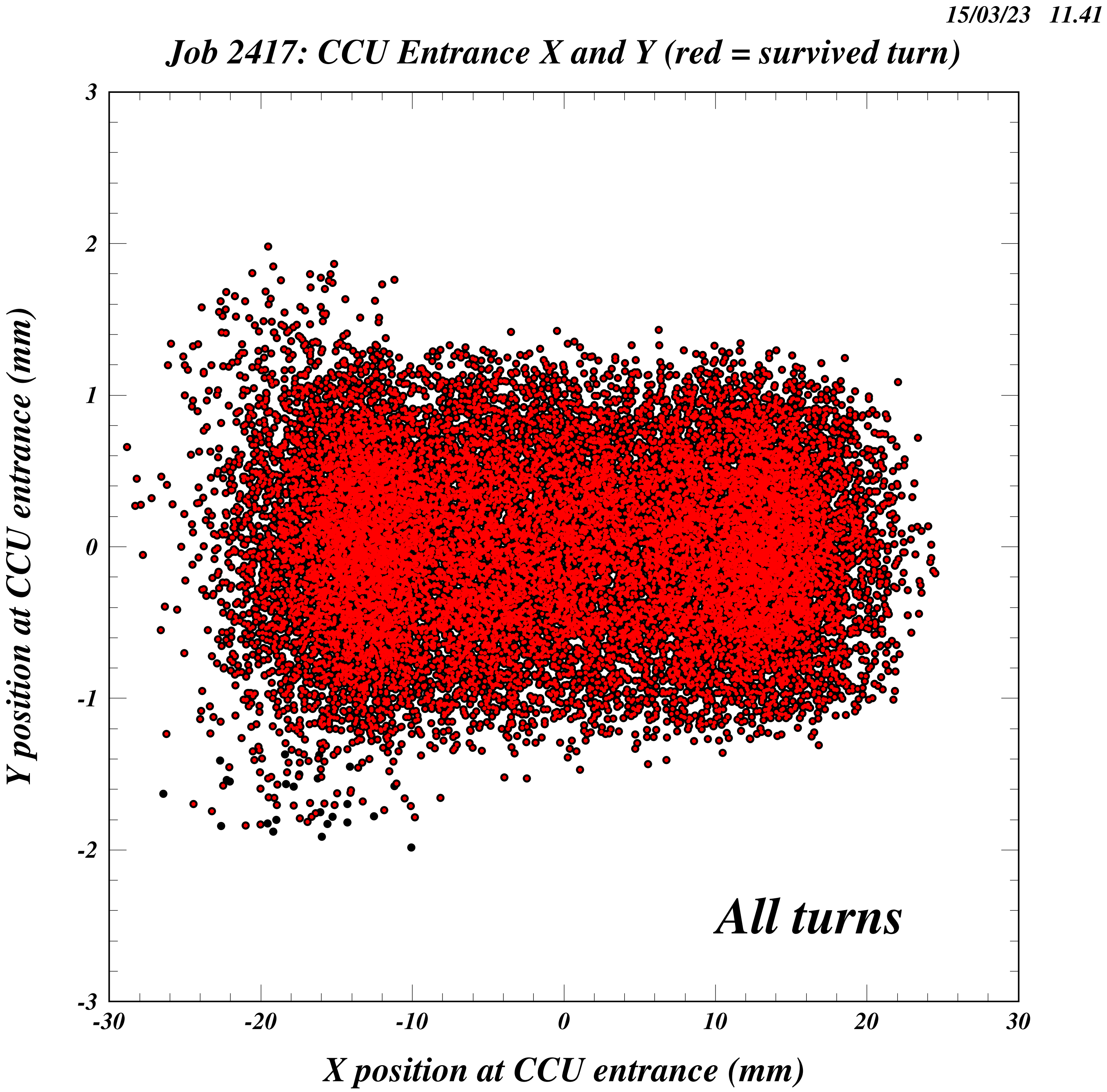

Job 2417: CCU Entrance X and Y (red = survived turn)
Entries 19512
Mean -0.5503
RMS 11.72
0.000
0.000
800
700
600
500
400
300
200
100
0
-30
-20
-10
0
10
20
30
Horizontal position at CCU entrance (mm)
Entries 19512
Mean -0.2775E-02
RMS 0.5612
UDFLW 0.000
0.000
700
600
500
400
300
200
100
0
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
Vertical position at CCU entrance (mm)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Job 2417: CCU Entrance X and Y (red = survived turn)
3
2
1
0
-1
-2
-3
Y position at CCU entrance (mm)
All turns
-30
-20
-10
0
10
20
30
X position at CCU entrance (mm)

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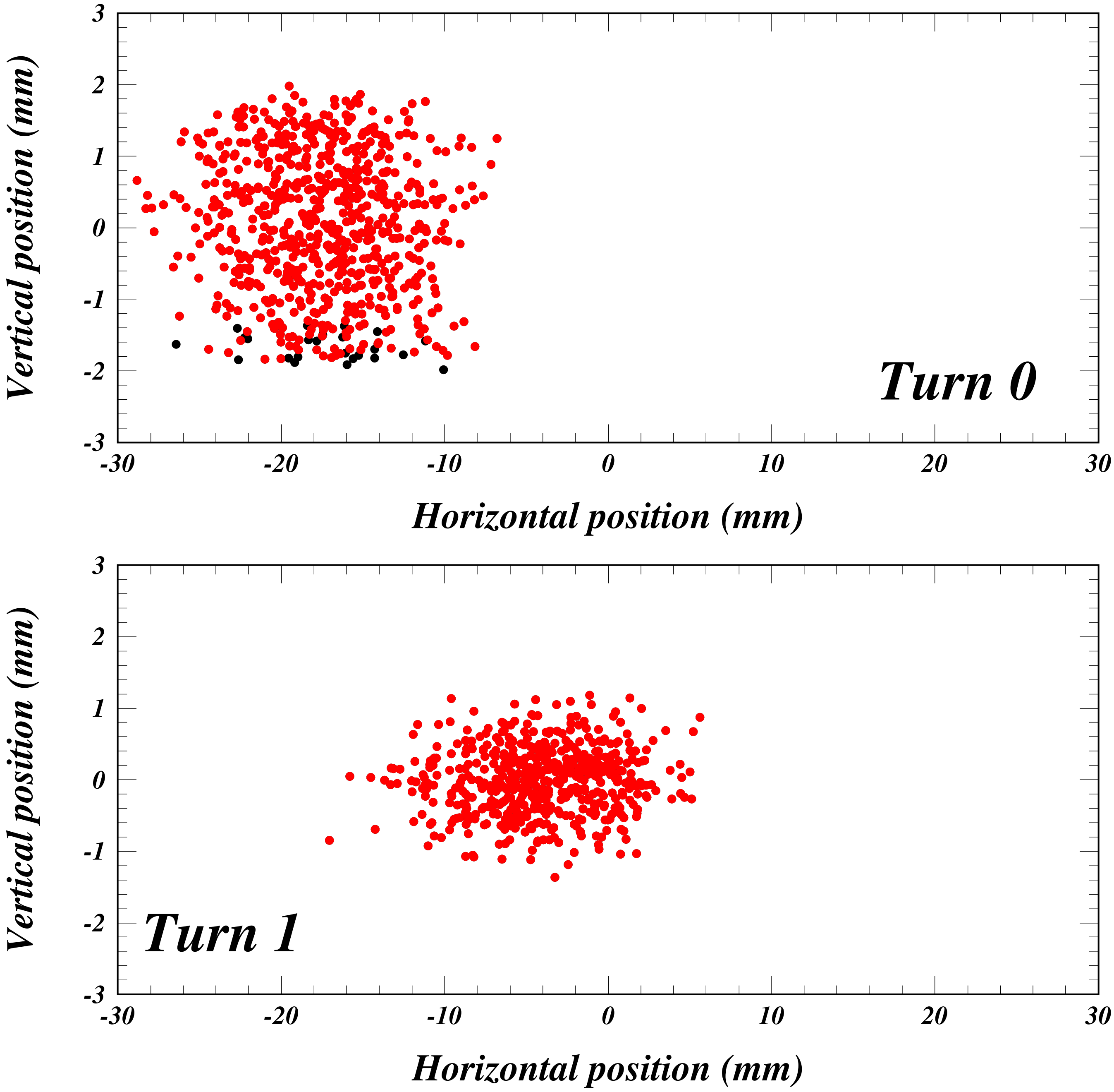
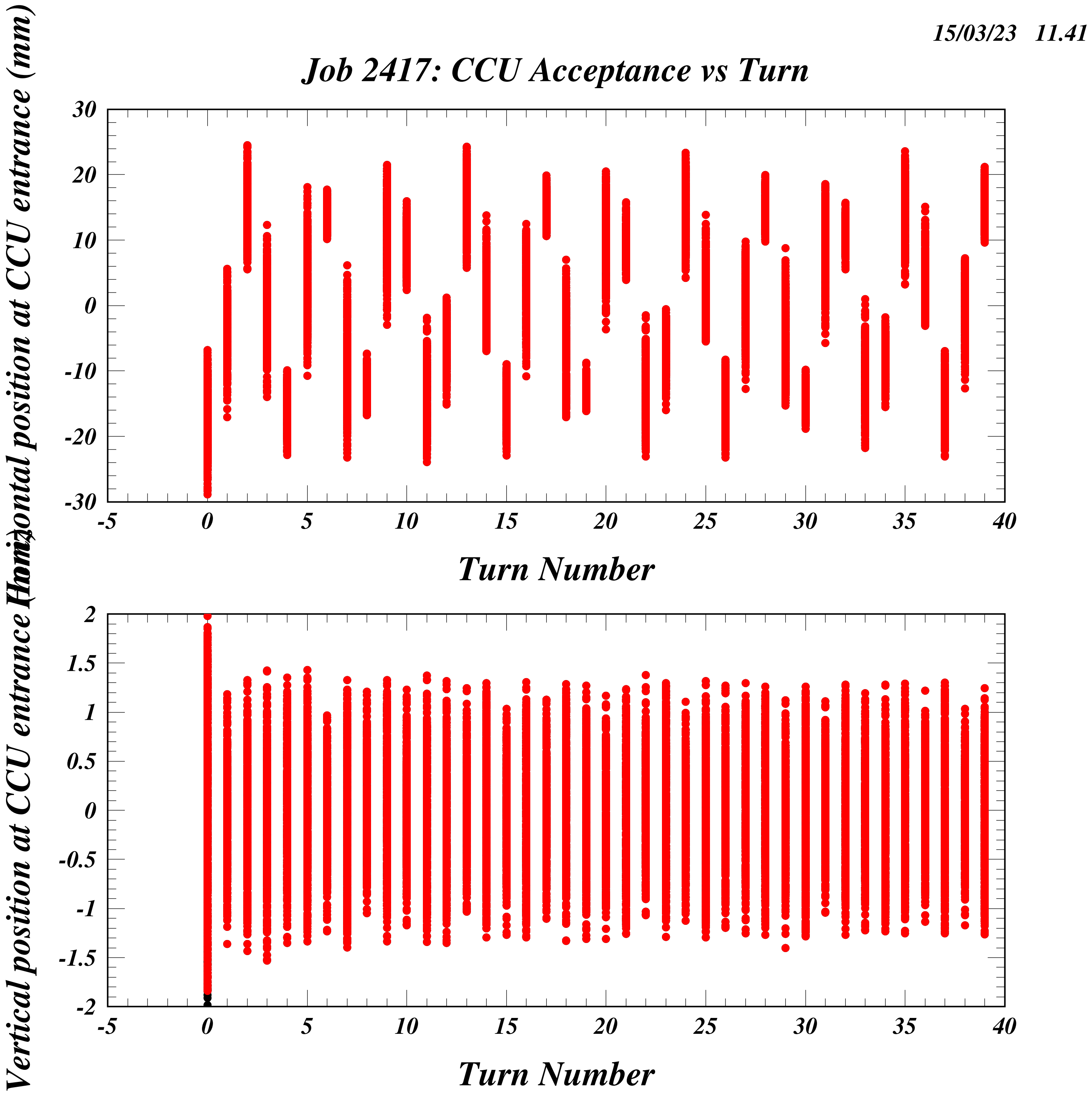
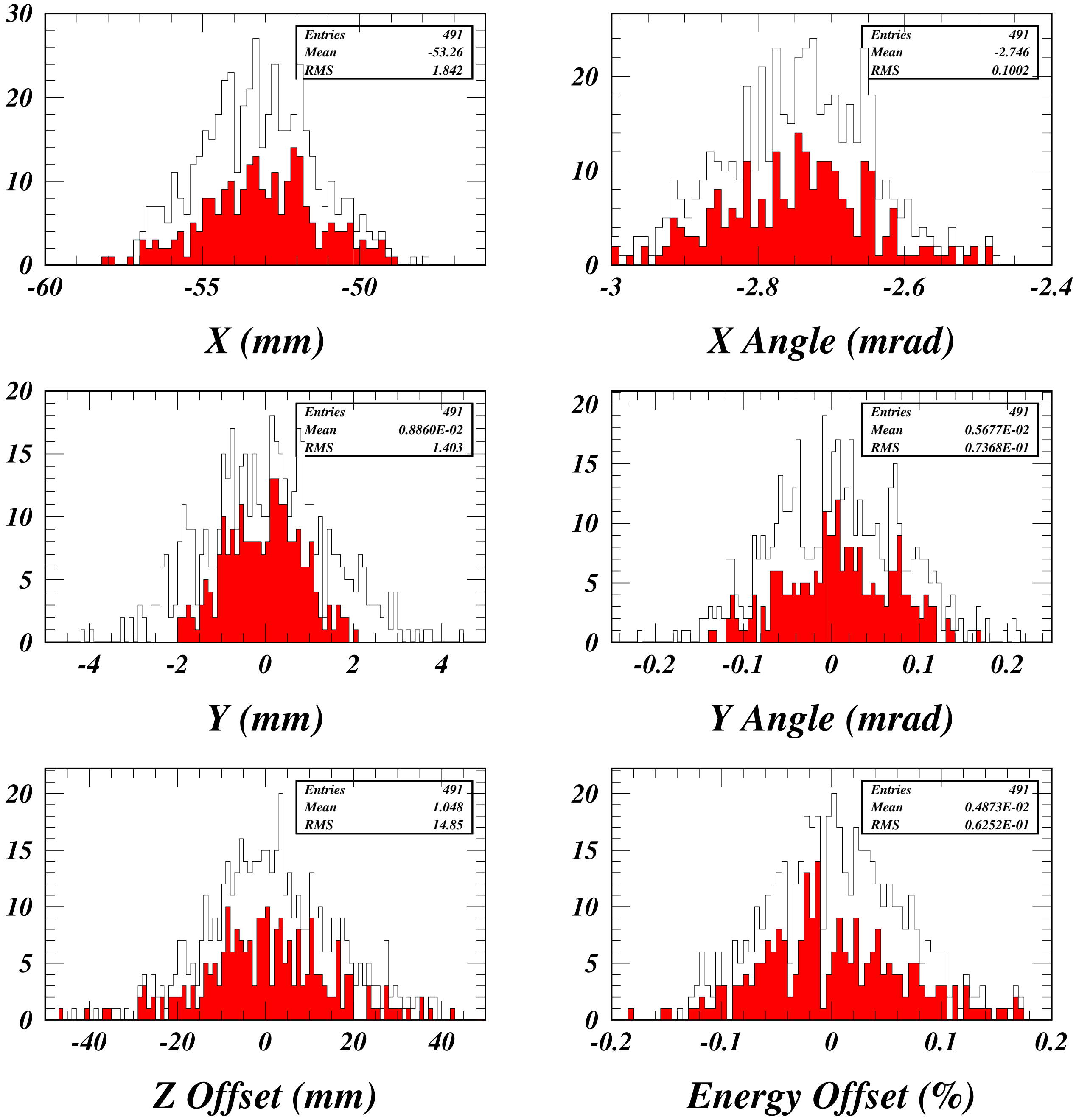
Job 2417: CCU Entrance X and Y (red = survived turn)




15/03/23 11.41
Job 2417: CCU Acceptance vs Turn
Horizontal position at CCU entrance (mm)
Turn Number
Vertical position at CCU entrance (mm)
Turn Number

15/03/23 11.41

Job 2417: Injection Distributions



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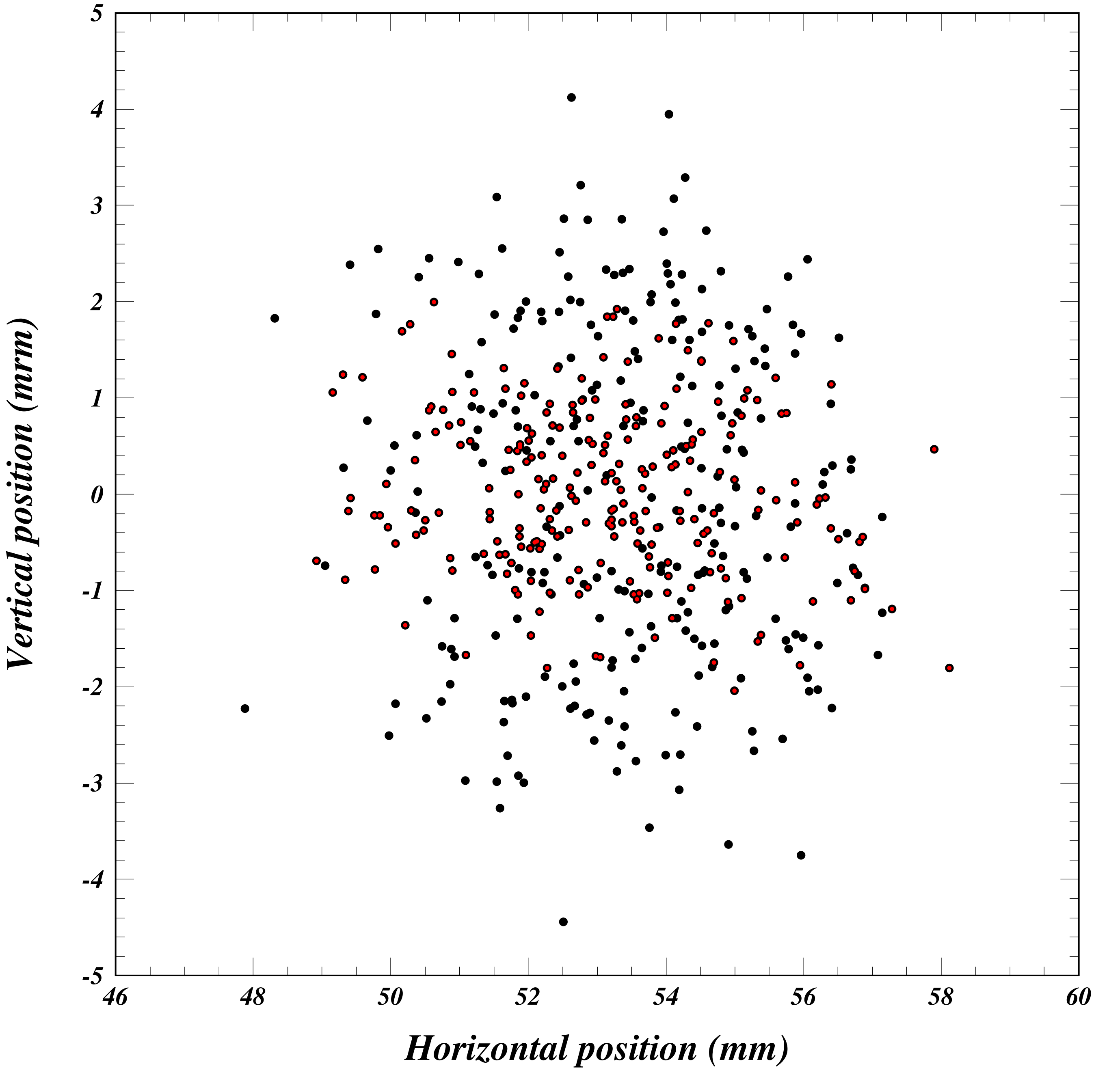
Job 2417: Injection Distributions



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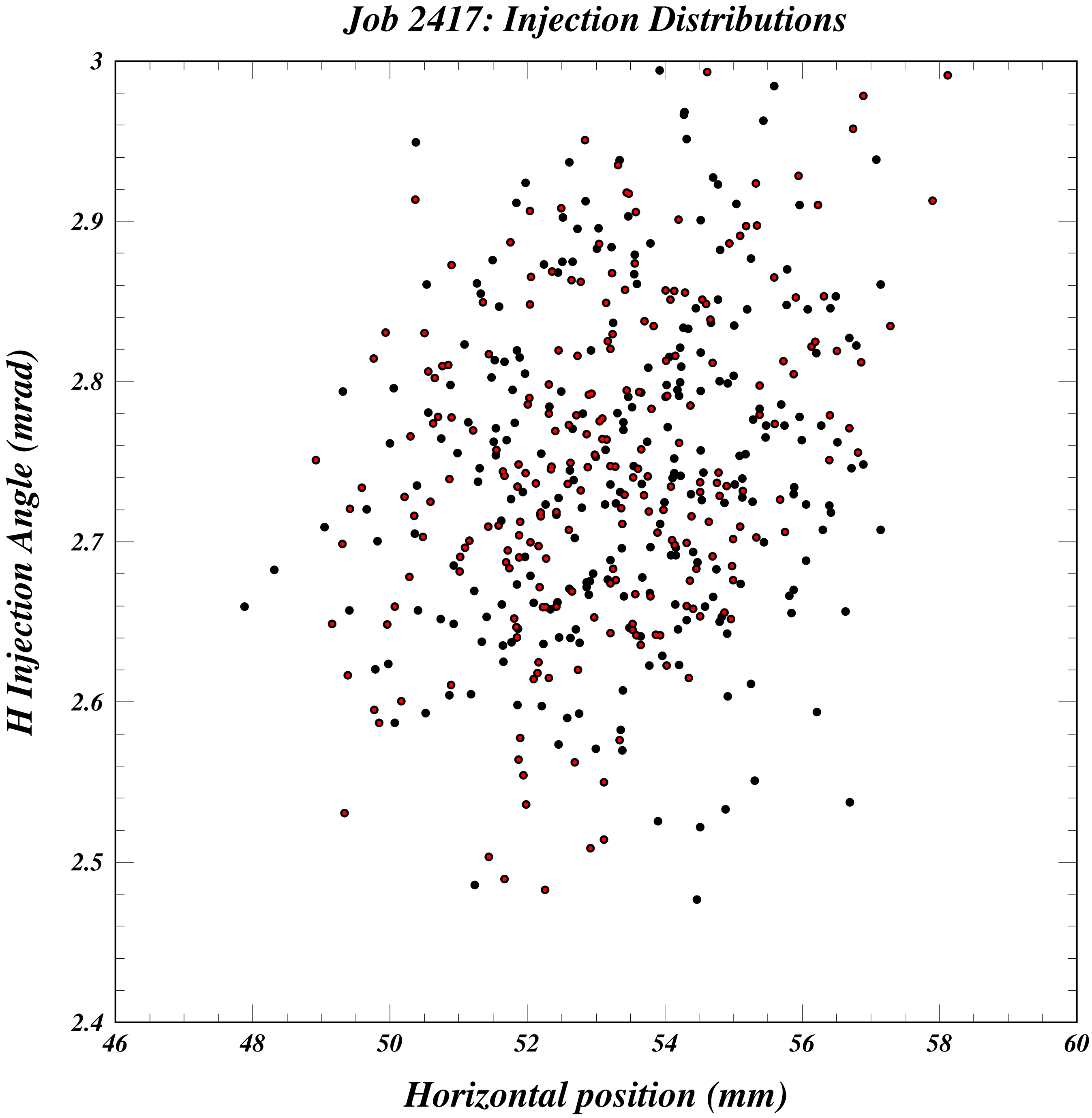
Job 2417: Injection Distributions
H Injection Angle (mrad)
3
2.9
2.8
2.7
2.6
2.5
2.4
46
48
50
52
54
56
58
60
Horizontal position (mm)

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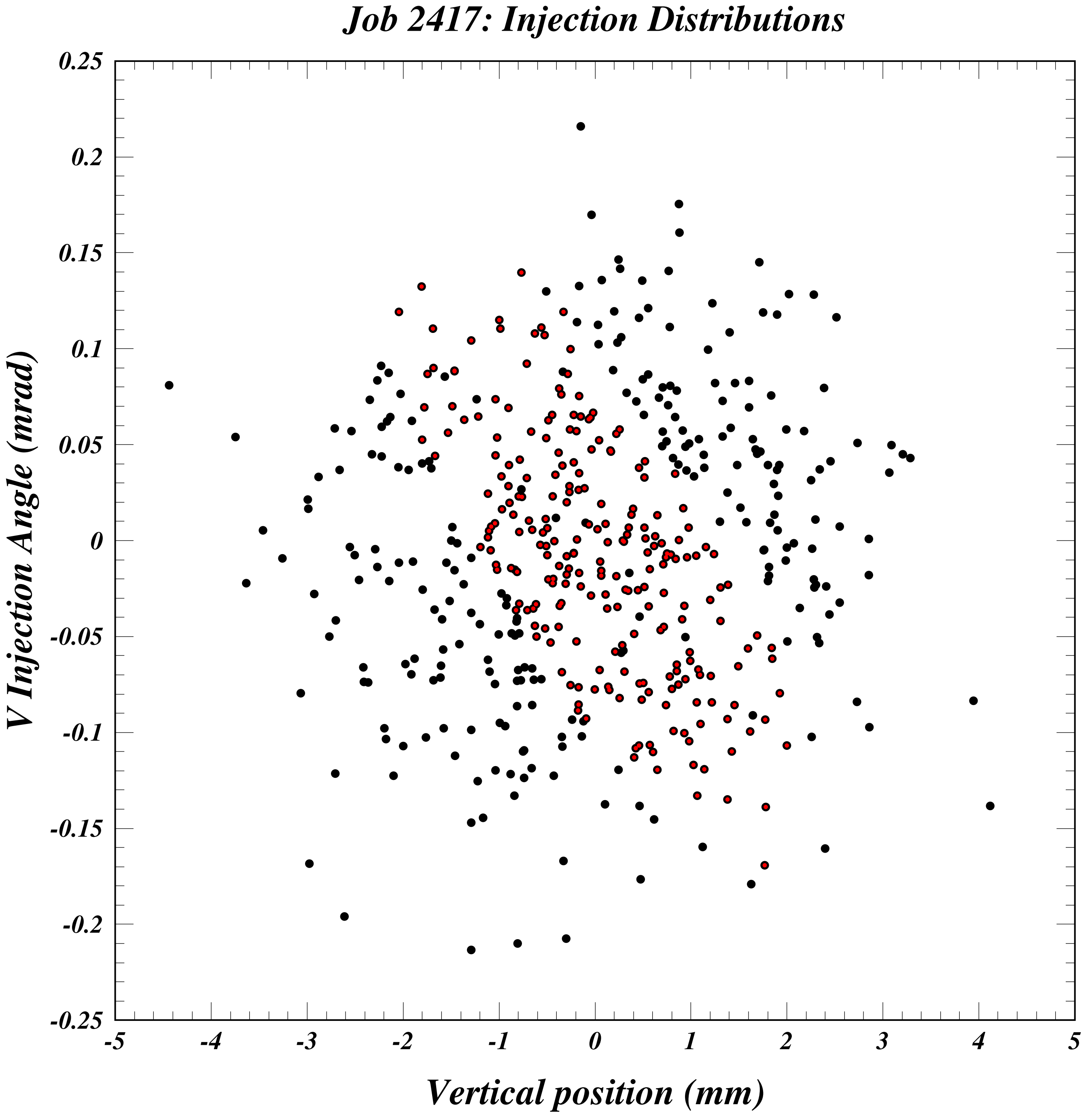
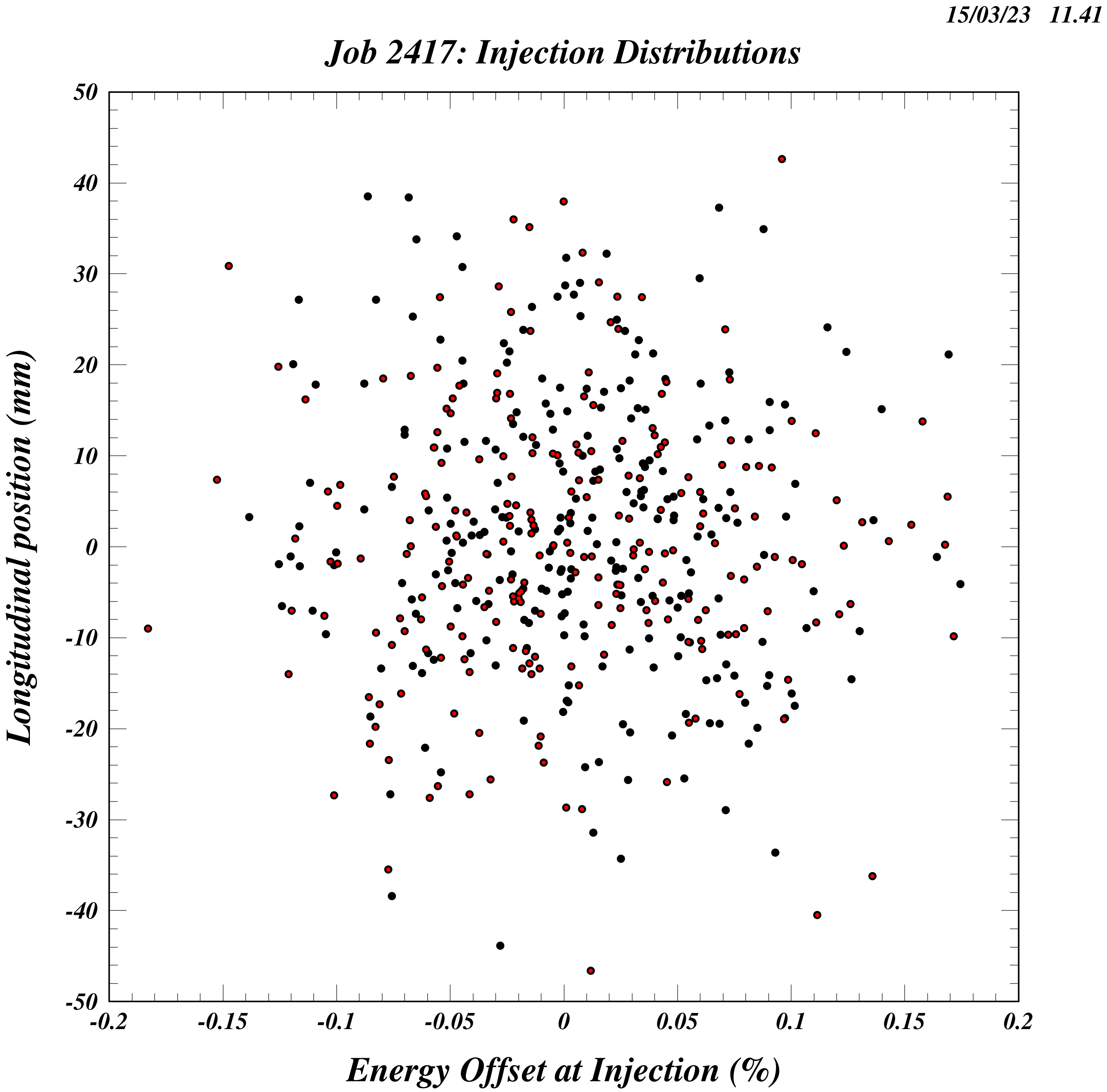


Job 2417: Injection Distributions
V Injection Angle (mrad)
Vertical position (mm)
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
-5
-4
-3
-2
-1
0
1
2
3
4
5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Job 2417: Injection Distributions
Longitudinal position (mm)
Energy Offset at Injection (%)
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

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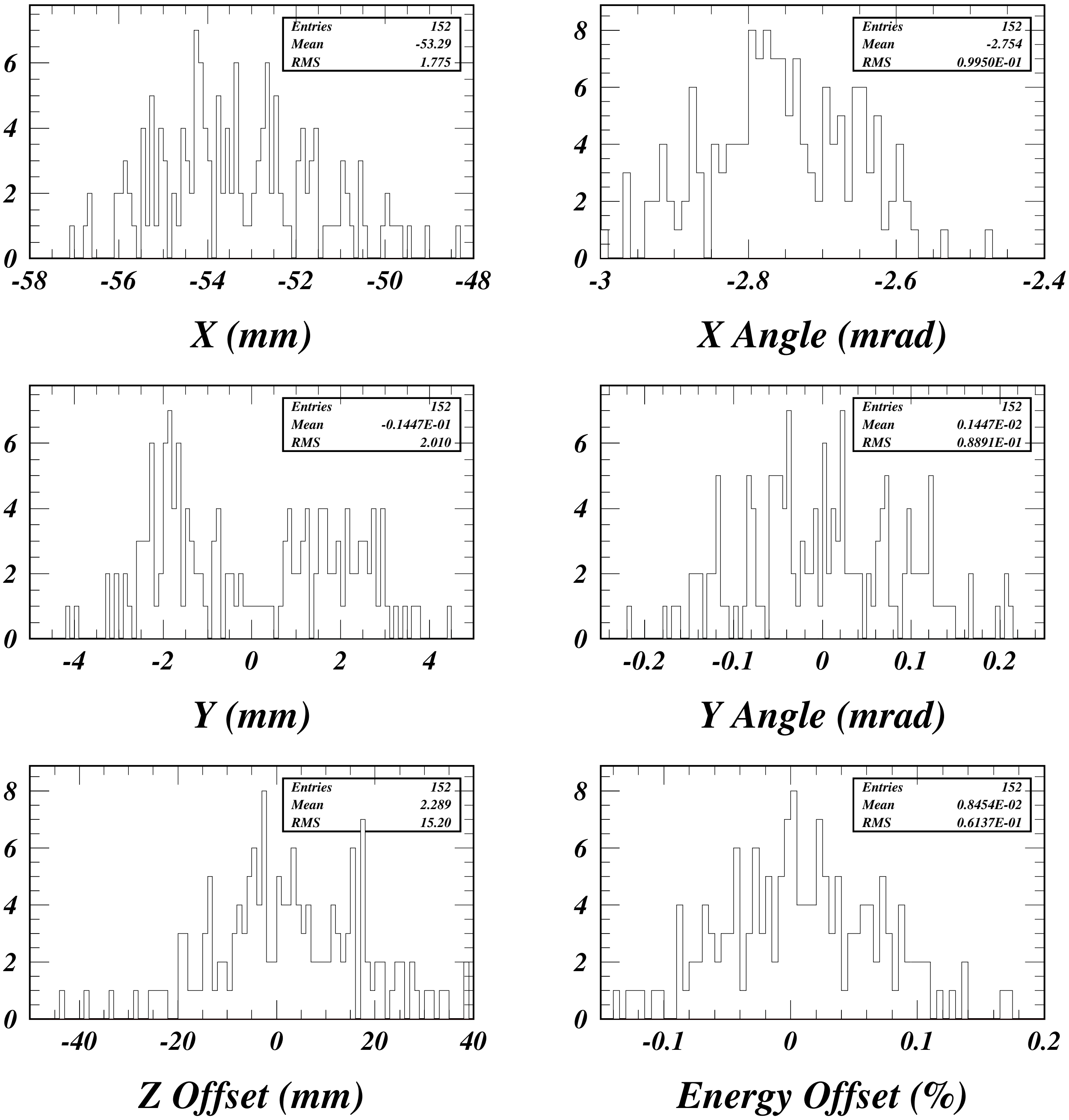
Job 2417: Injection Distributions (Injection turn losses only)



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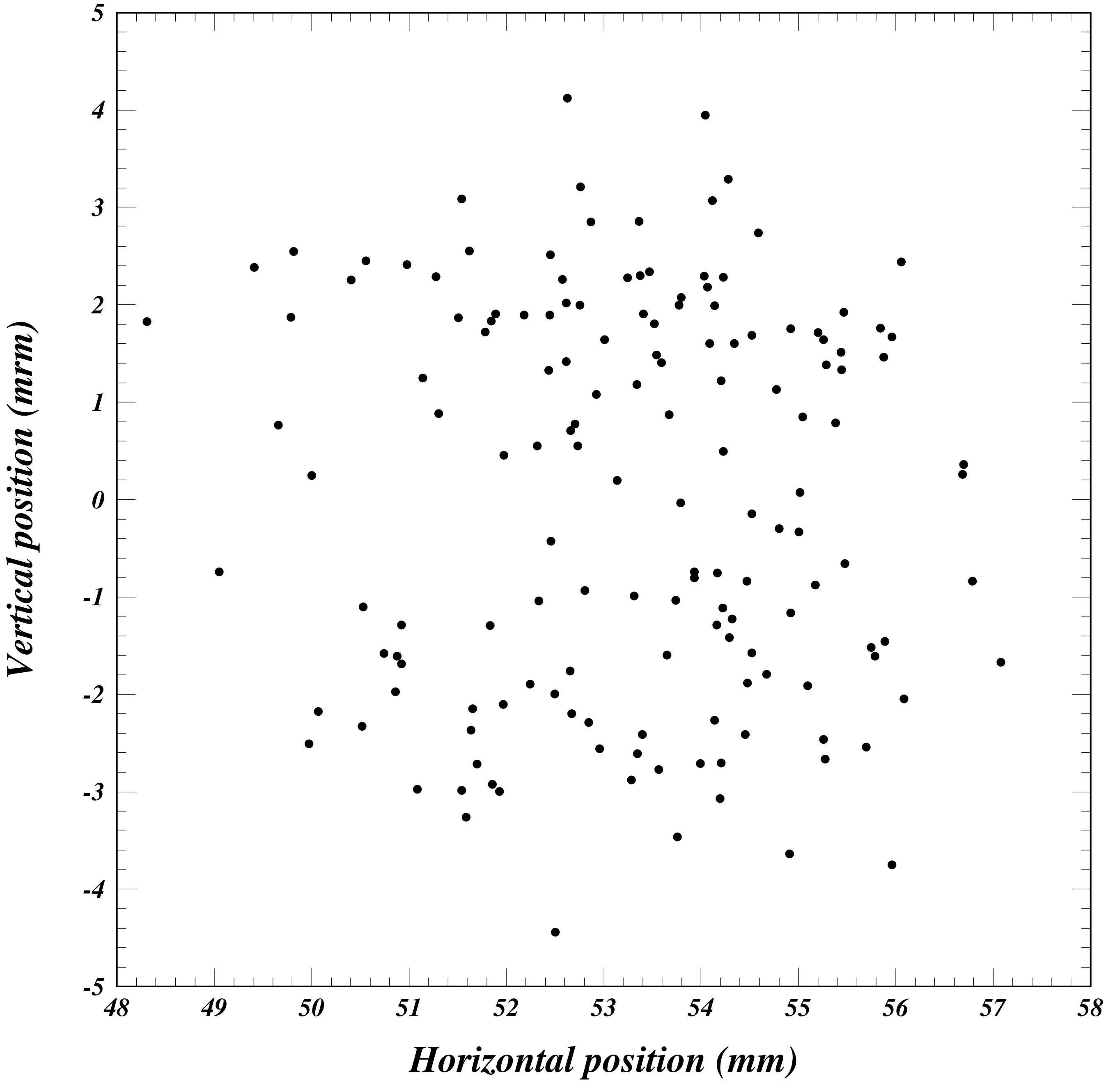
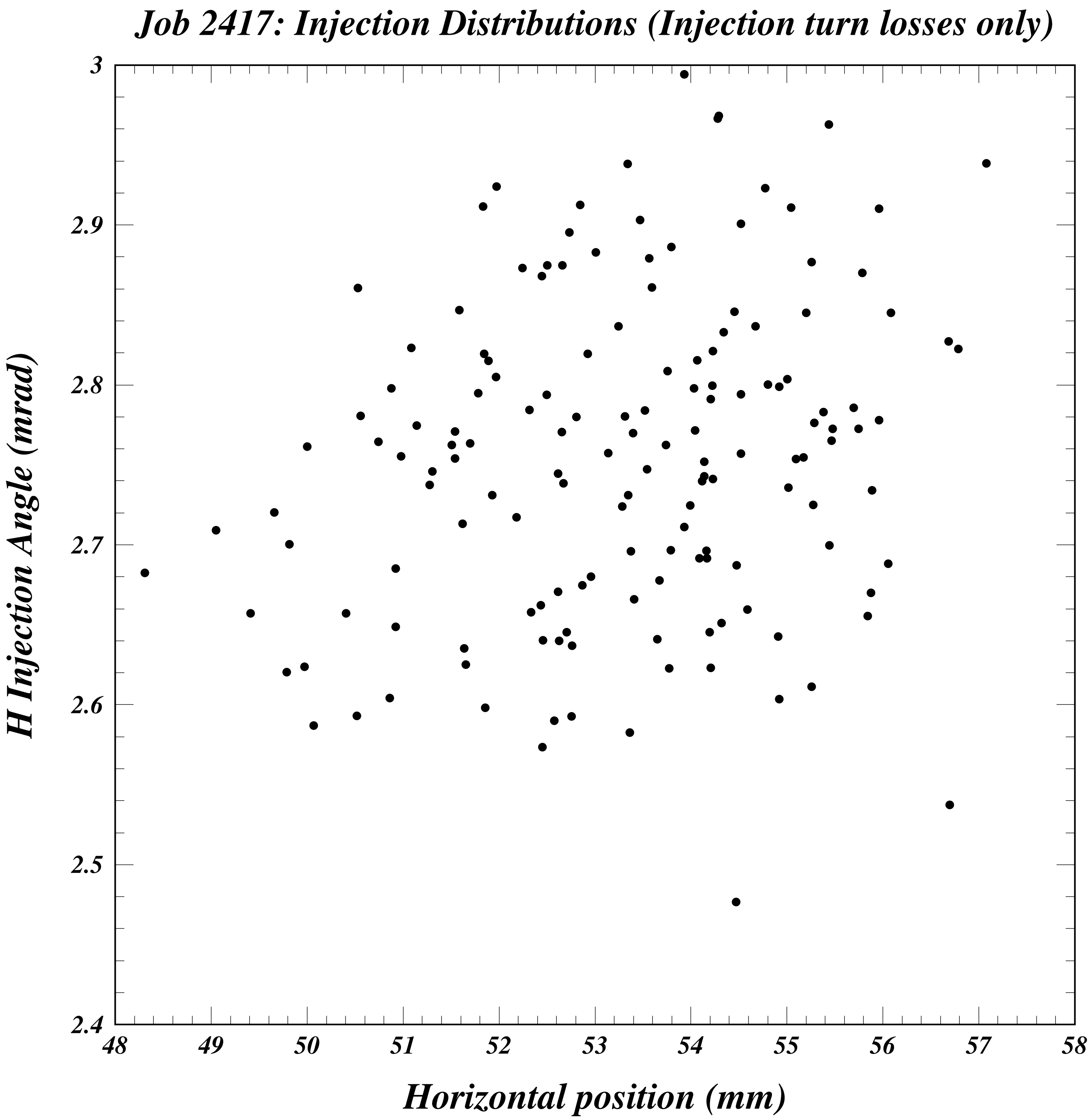
Job 2417: Injection Distributions (Injection turn losses only)

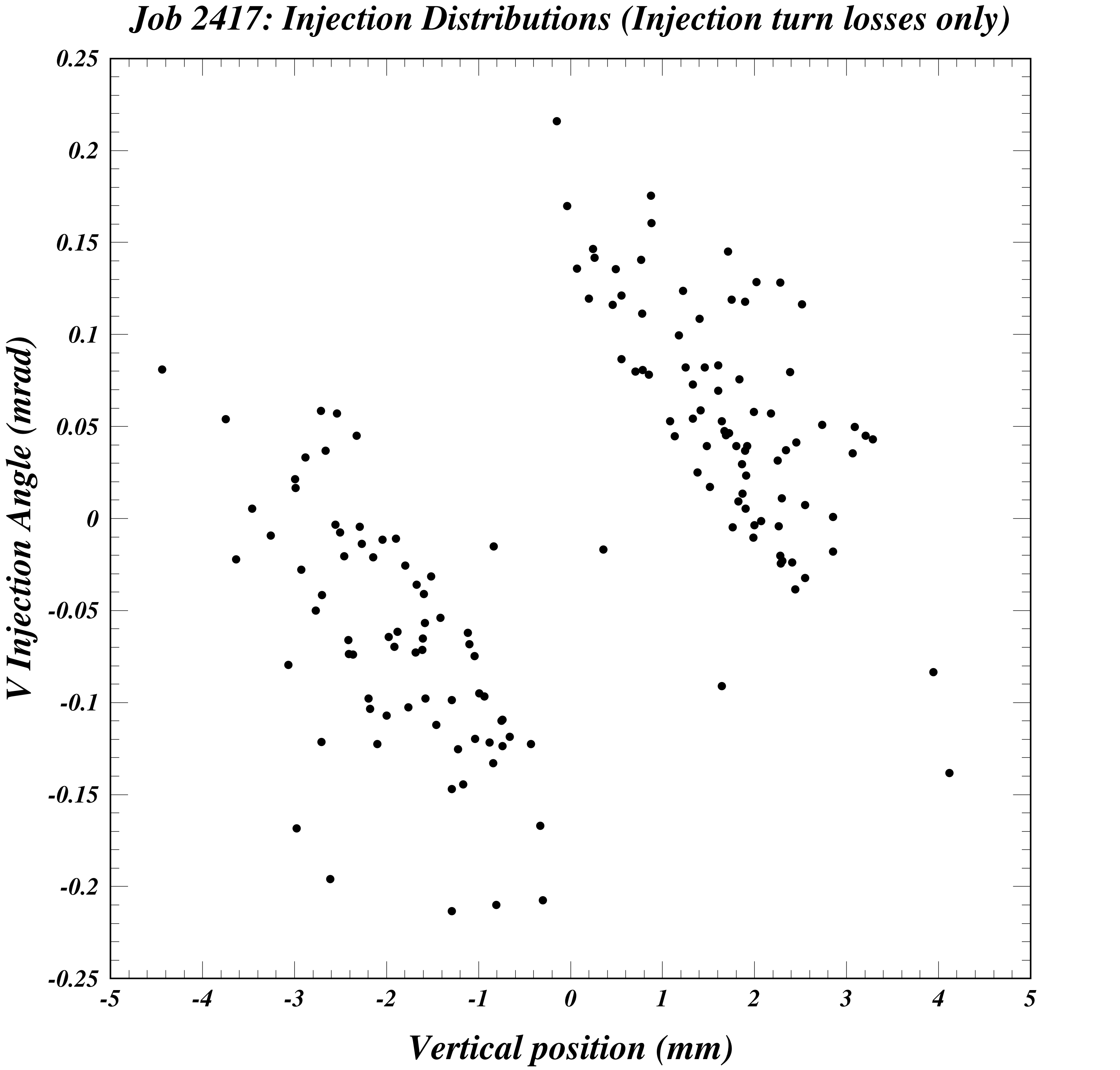


15/03/23 11.41

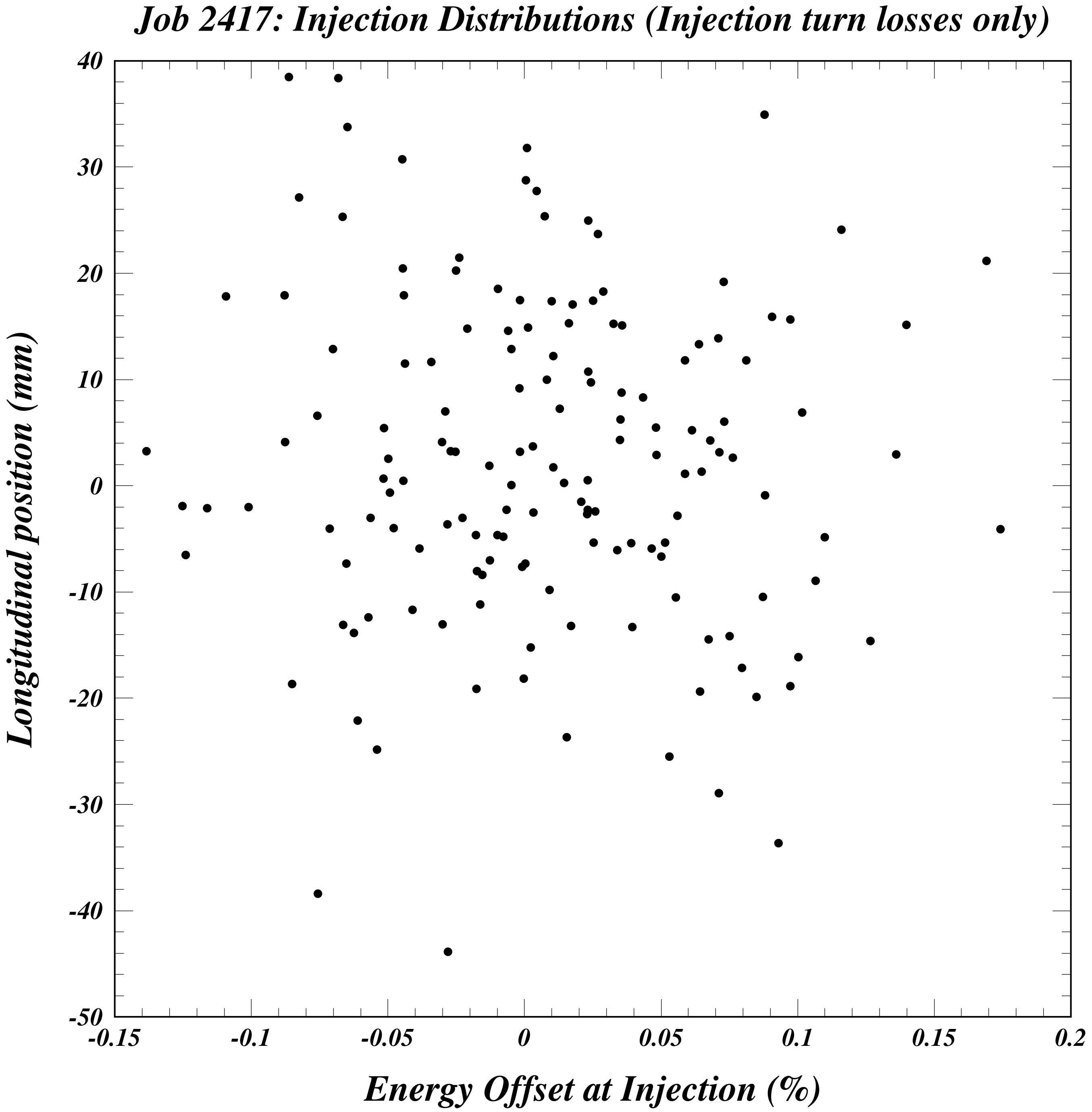


Job 2417: Injection Distributions (Injection turn losses only)
H Injection Angle (mrad)
Horizontal position (mm)
3
2.9
2.8
2.7
2.6
2.5
2.4
48
49
50
51
52
53
54
55
56
57
58

15/03/23 11.41


Job 2417: Injection Distributions (Injection turn losses only)
V Injection Angle (mrad)
Vertical position (mm)
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
-5
-4
-3
-2
-1
0
1
2
3
4
5

15/03/23 11.41



Job 2417: Injection Distributions (Injection turn losses only)
Longitudinal position (mm)
40
30
20
10
0
-10
-20
-30
-40
-50
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2
Energy Offset at Injection (%)

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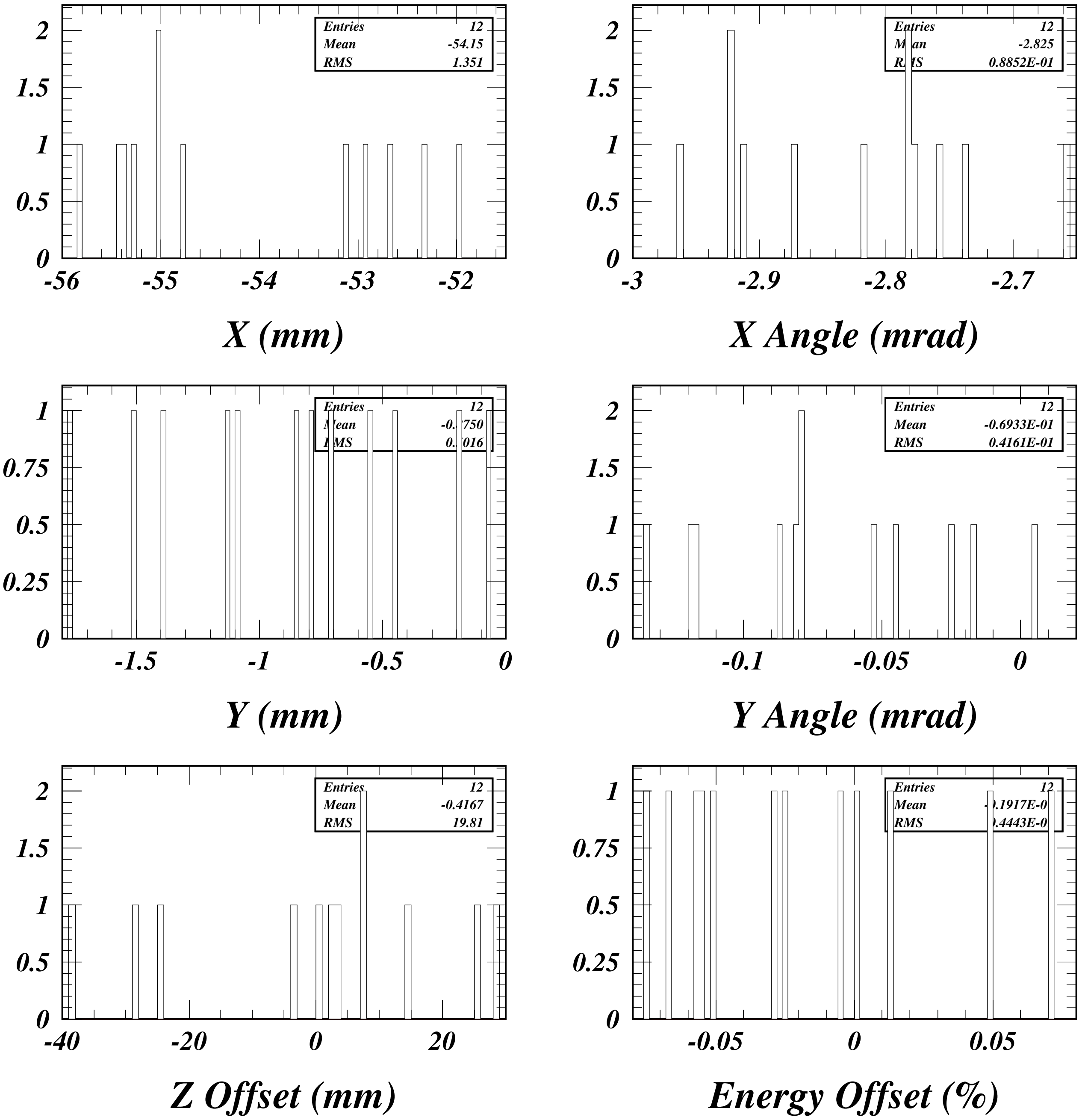
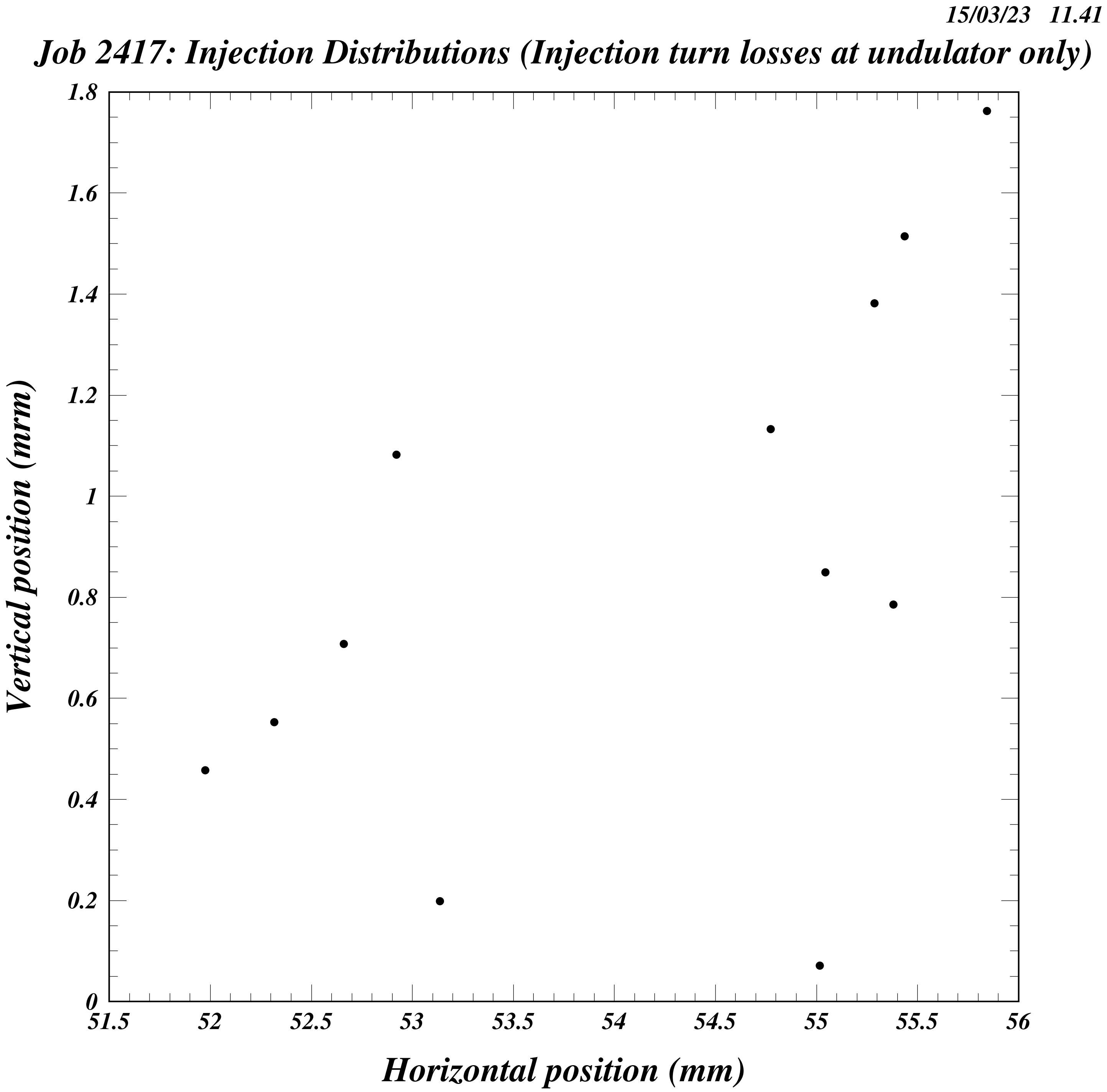
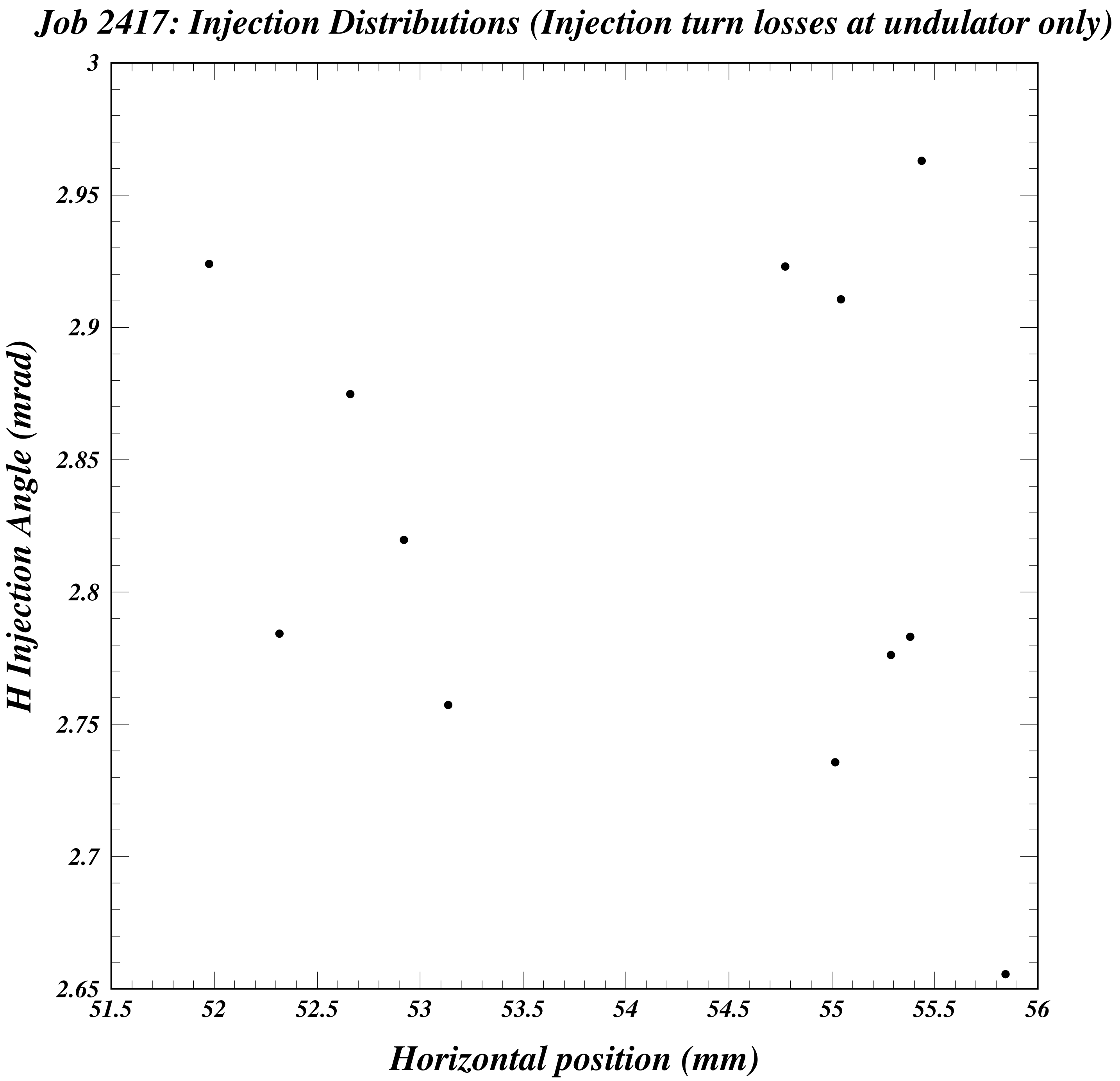
Job 2417: Injection Distributions (Injection turn losses at undulator only)

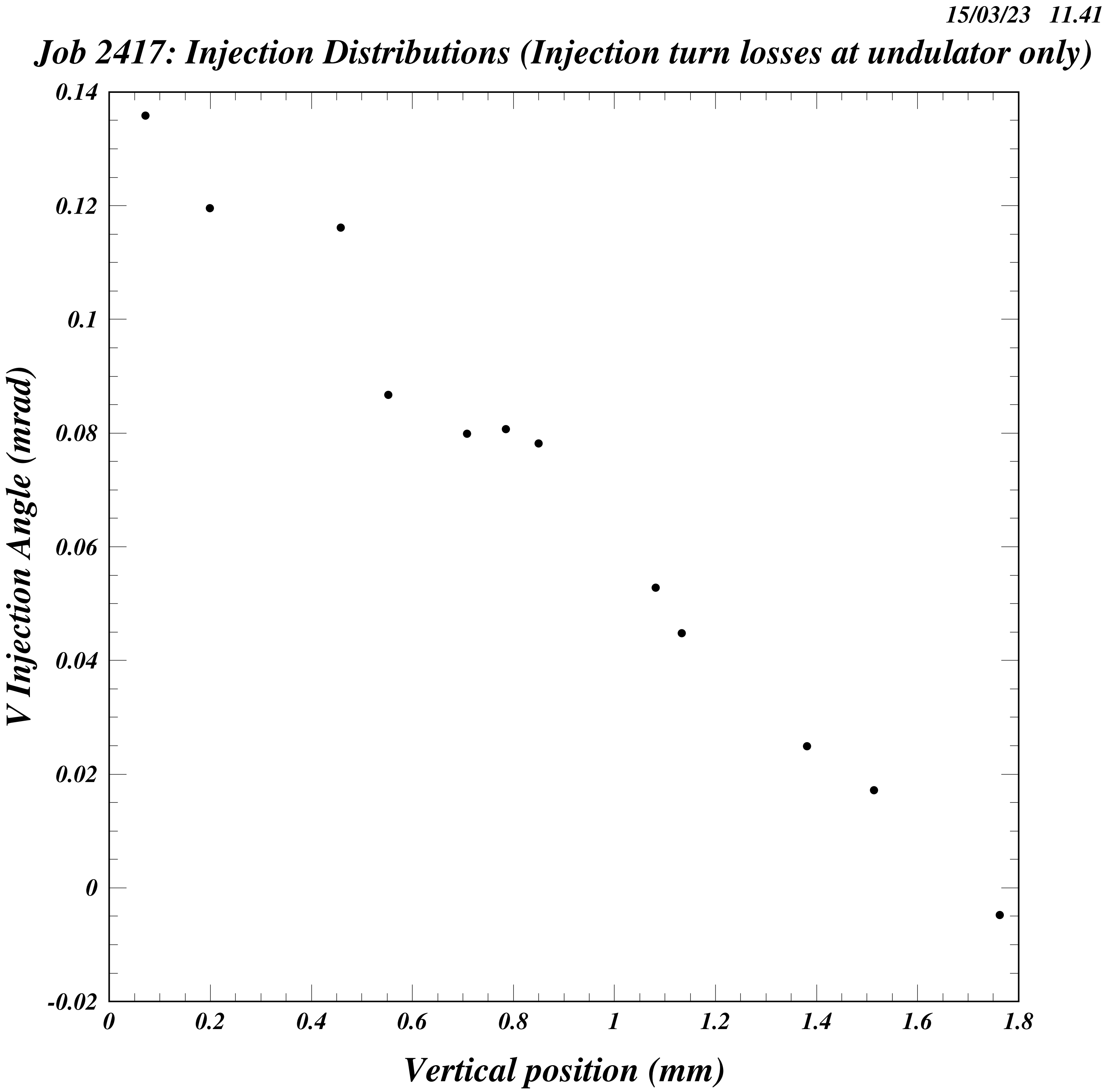


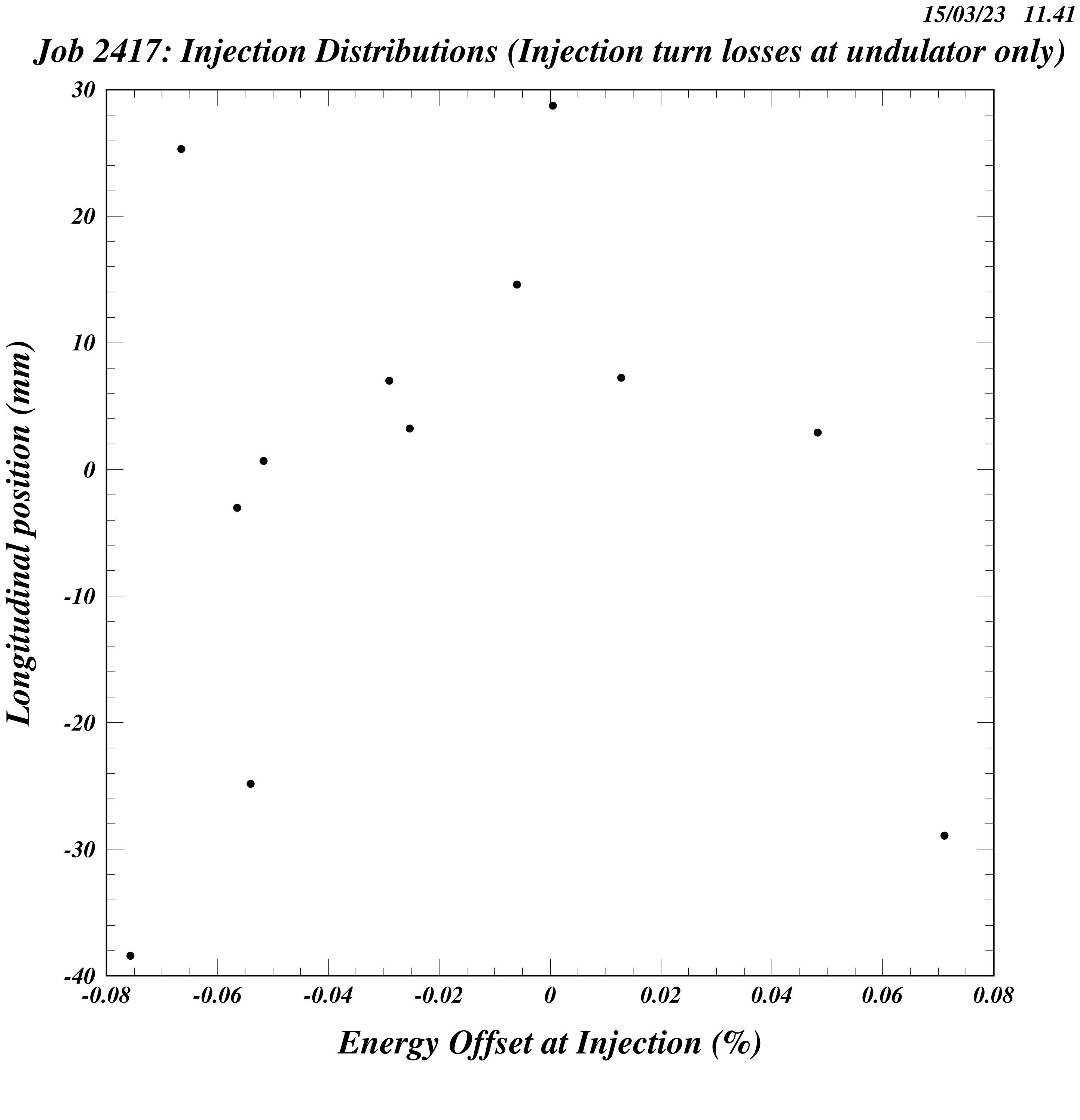

15/03/23 11.41
Job 2417: Injection Distributions (Injection turn losses at undulator only)
Vertical position (mrm)
Horizontal position (mm)
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
51.5
52
52.5
53
53.5
54
54.5
55
55.5
56

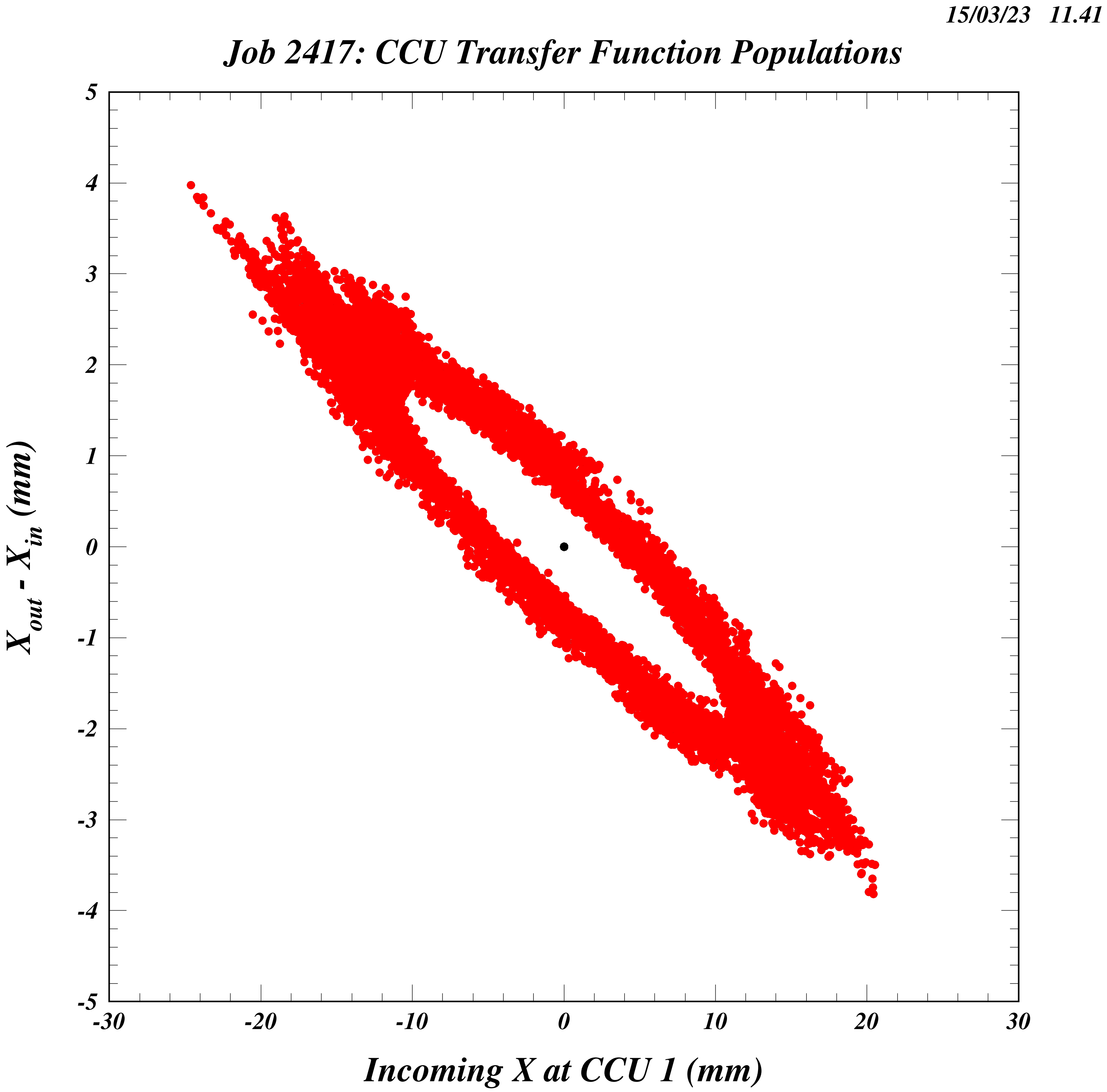
15/03/23 11.41



Job 2417: Injection Distributions (Injection turn losses at undulator only)
H Injection Angle (mrad)
Horizontal position (mm)
3
2.95
2.9
2.85
2.8
2.75
2.7
2.65
51.5
52
52.5
53
53.5
54
54.5
55
55.5
56


15/03/23 11.41
Job 2417: Injection Distributions (Injection turn losses at undulator only)
V Injection Angle (mrad)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
Vertical position (mm)


15/03/23 11.41
Job 2417: Injection Distributions (Injection turn losses at undulator only)
Longitudinal position (mm)
30
20
10
0
-10
-20
-30
-40
-0.08
-0.06
-0.04
-0.02
0
0.02
0.04
0.06
0.08
Energy Offset at Injection (%)


15/03/23 11.41
Job 2417: CCU Transfer Function Populations
5
4
3
2
1
0
-1
-2
-3
-4
-5
-30
-20
-10
0
10
20
30
Incoming X at CCU 1 (mm)
X_{out} - X_{in} (mm)

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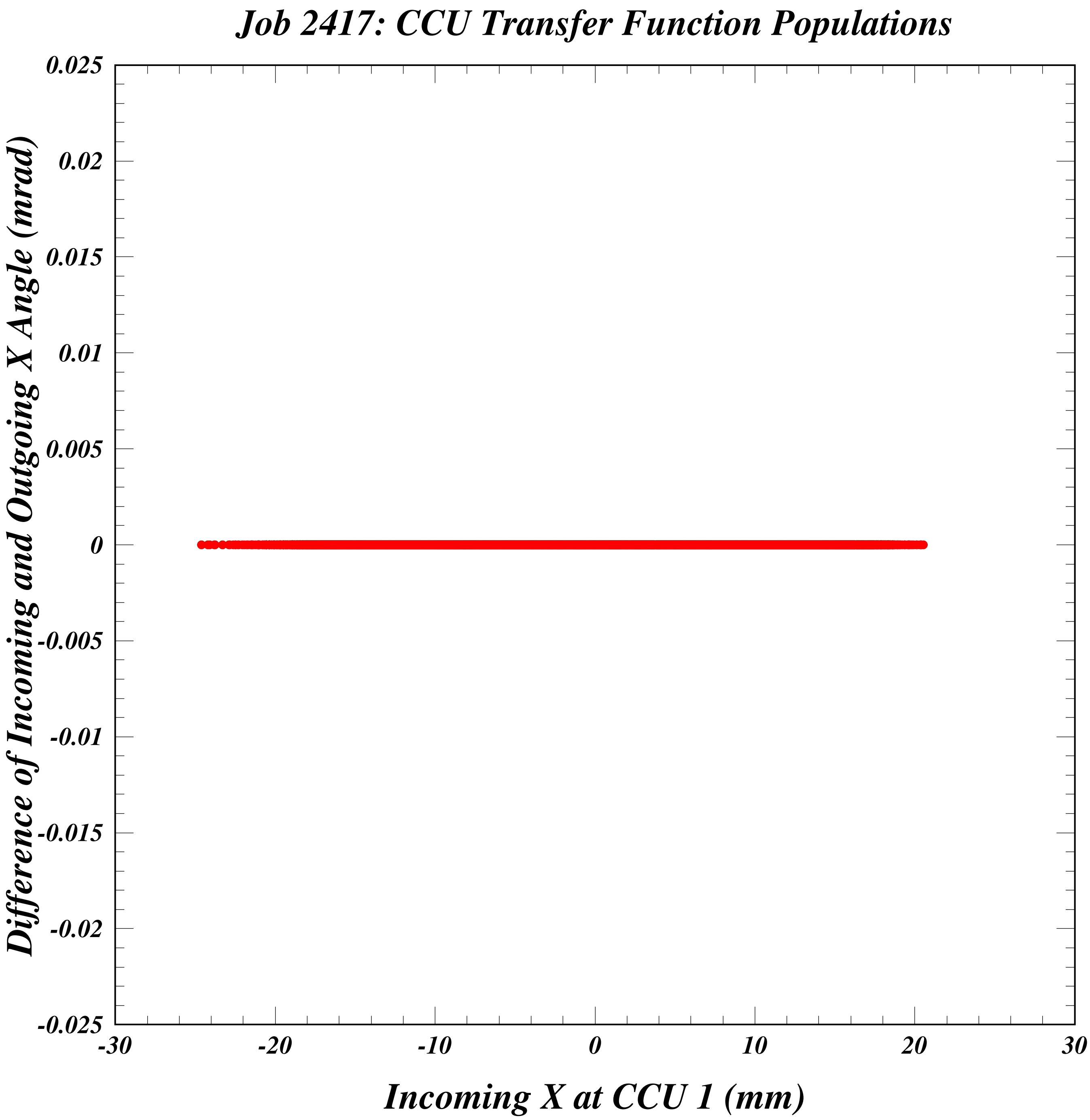
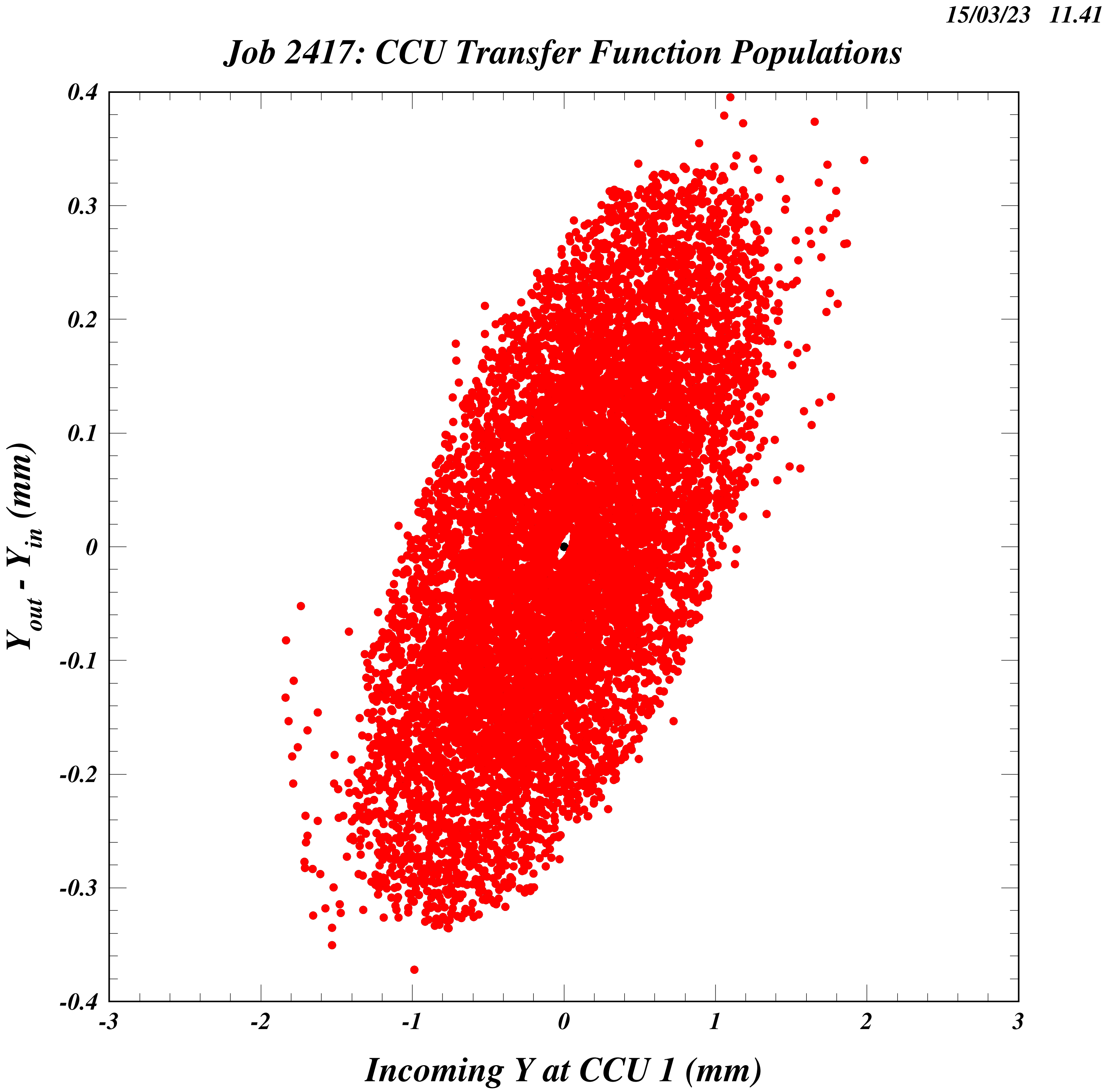

Job 2417: CCU Transfer Function Populations
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
Difference of Incoming and Outgoing X Angle (mrad)
-30
-20
-10
0
10
20
30
Incoming X at CCU 1 (mm)



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Job 2417: CCU Transfer Function Populations
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
$Y_{out} - Y_{in}$ (mm)
-3
-2
-1
0
1
2
3
Incoming Y at CCU 1 (mm)

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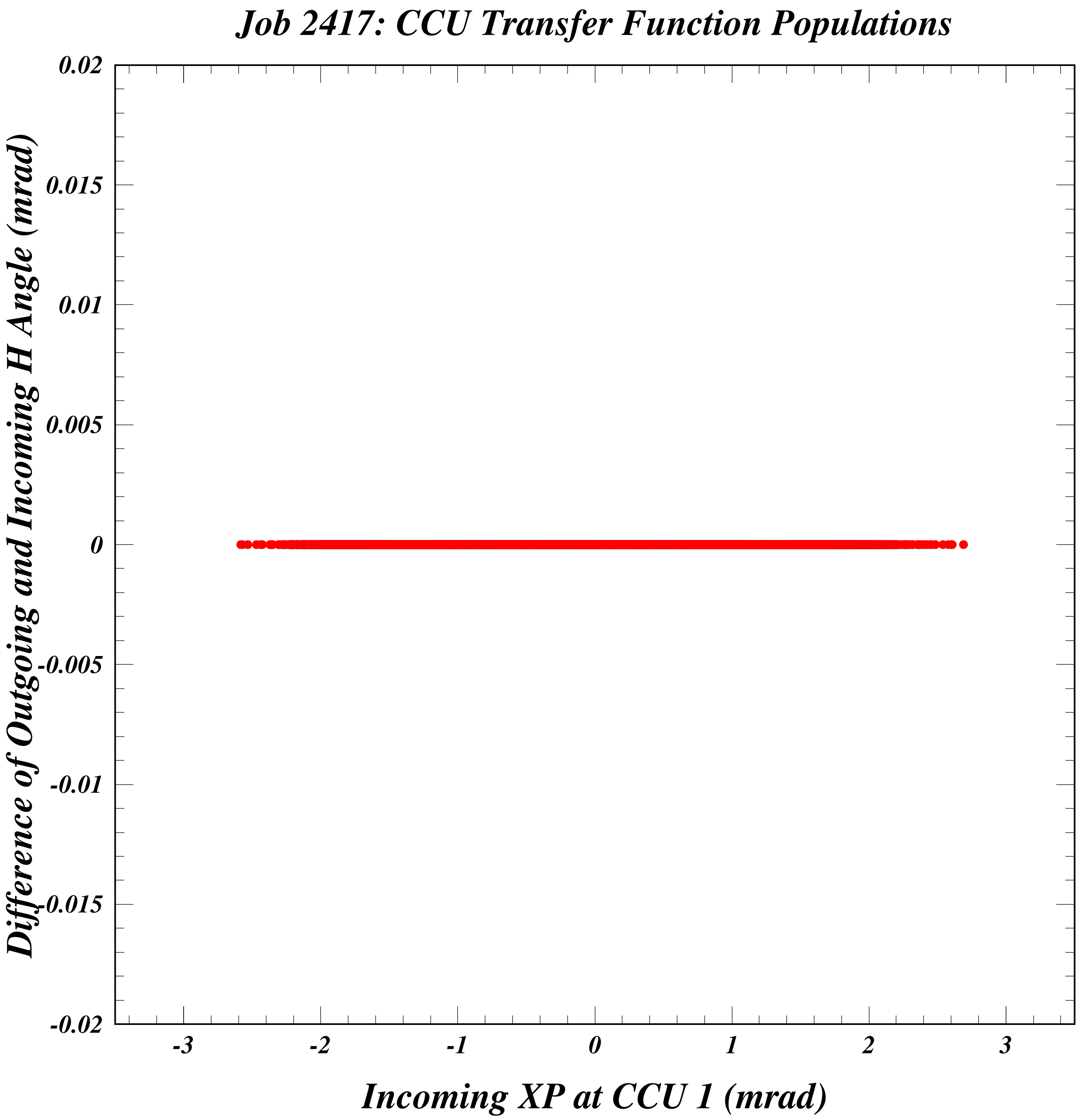
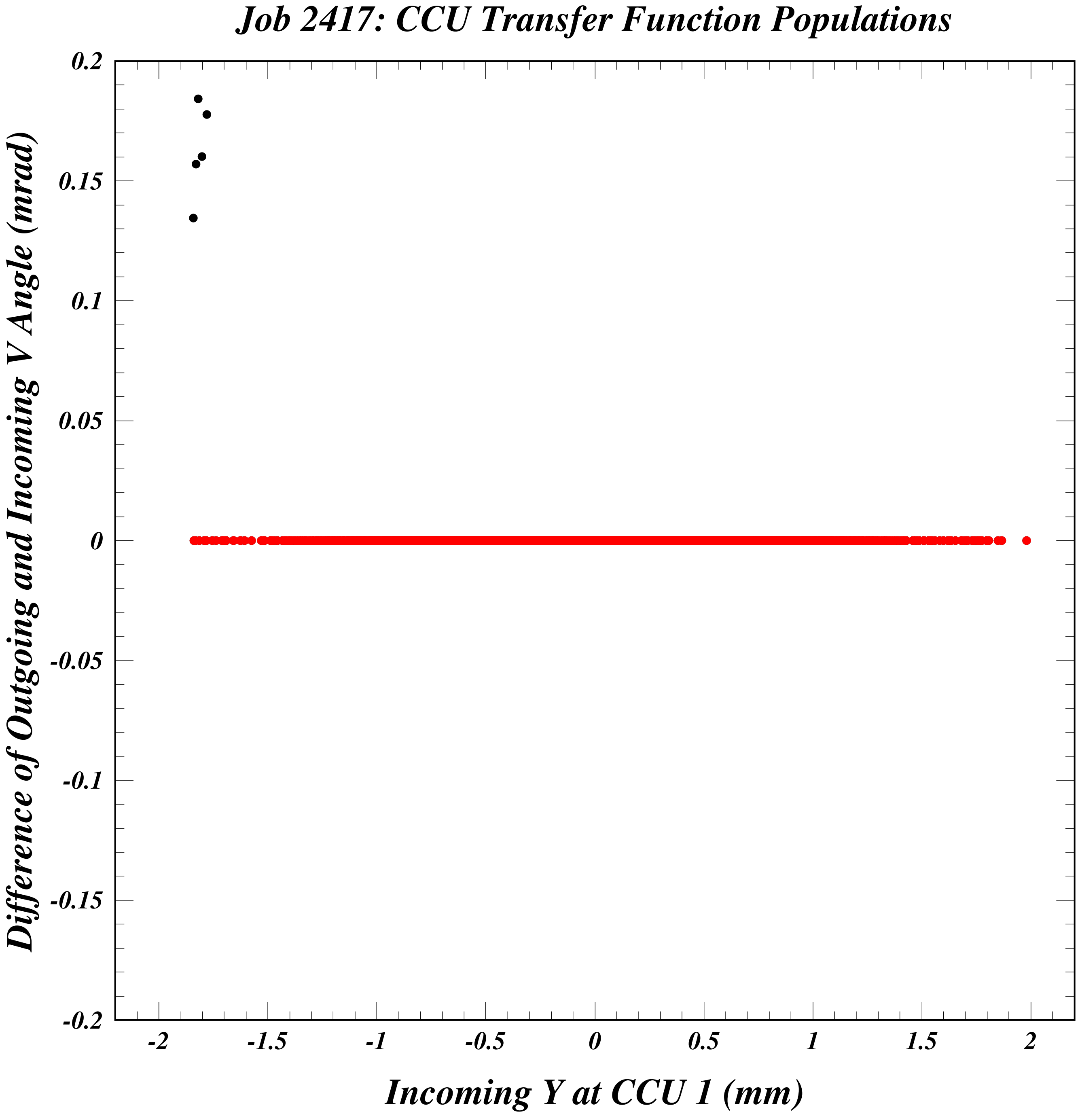
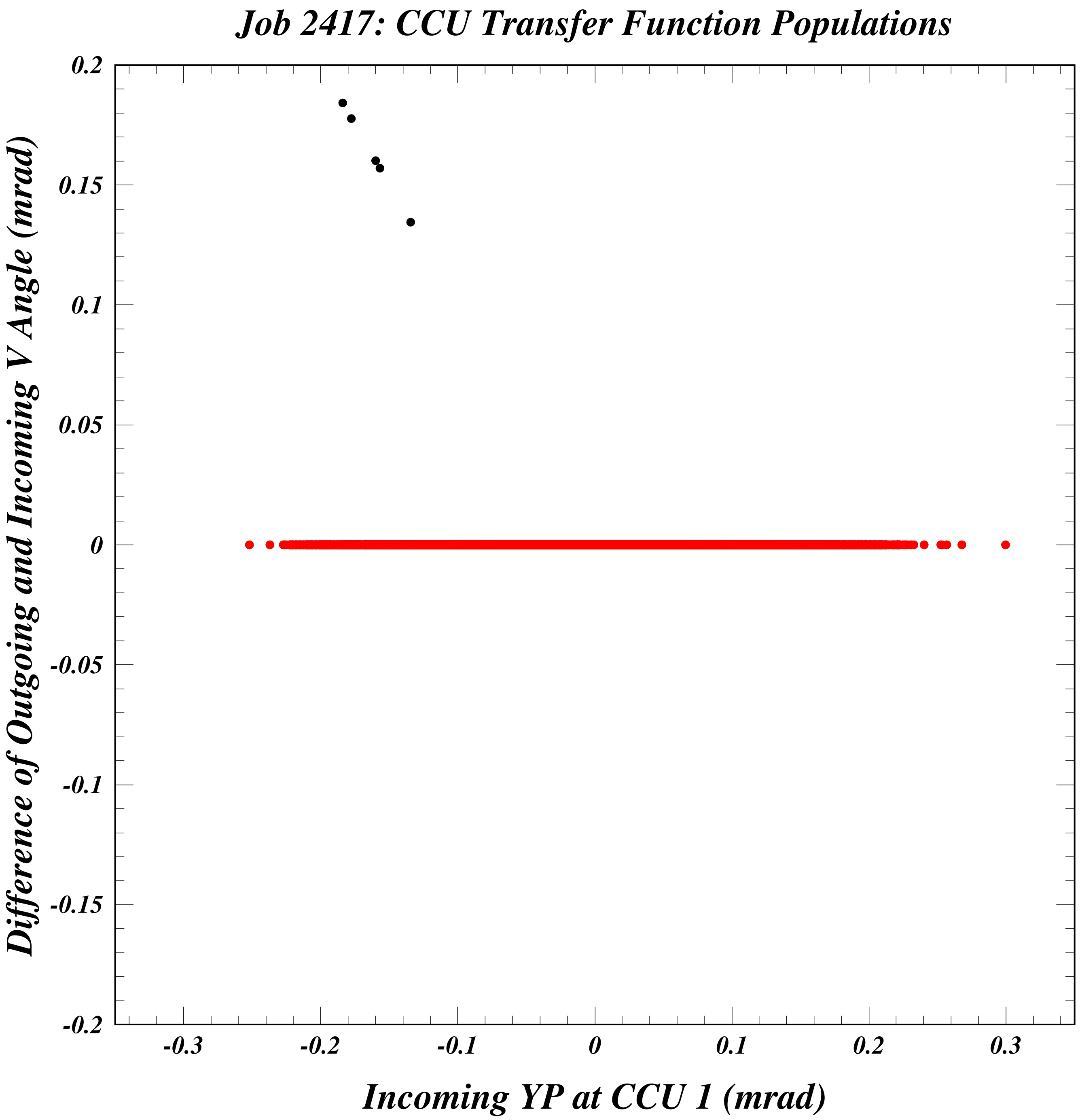

Job 2417: CCU Transfer Function Populations
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
Difference of Outgoing and Incoming H Angle (mrad)
-3
-2
-1
0
1
2
3
Incoming XP at CCU 1 (mrad)

15/03/23 11.41

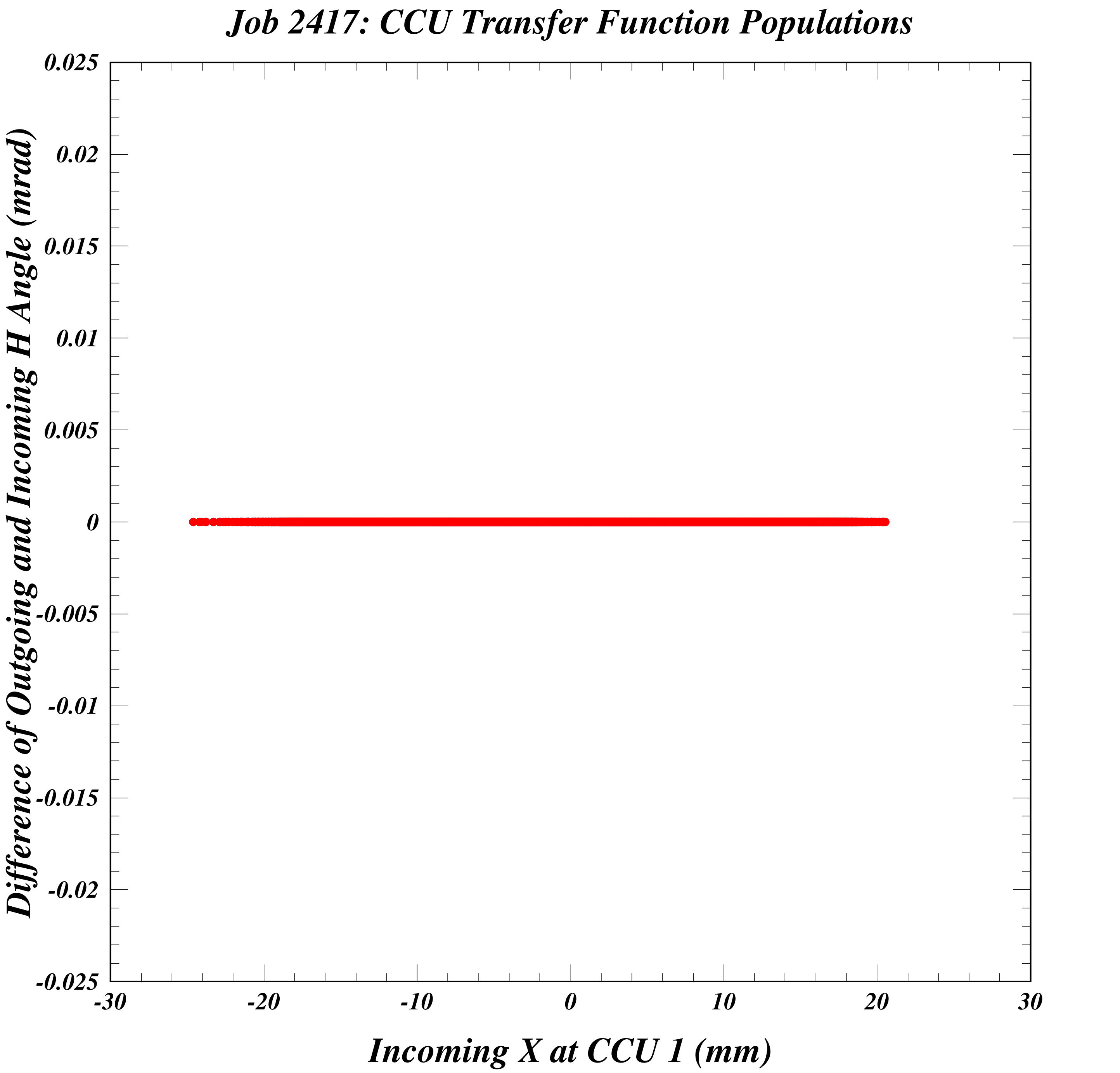


Job 2417: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
Incoming Y at CCU 1 (mm)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2

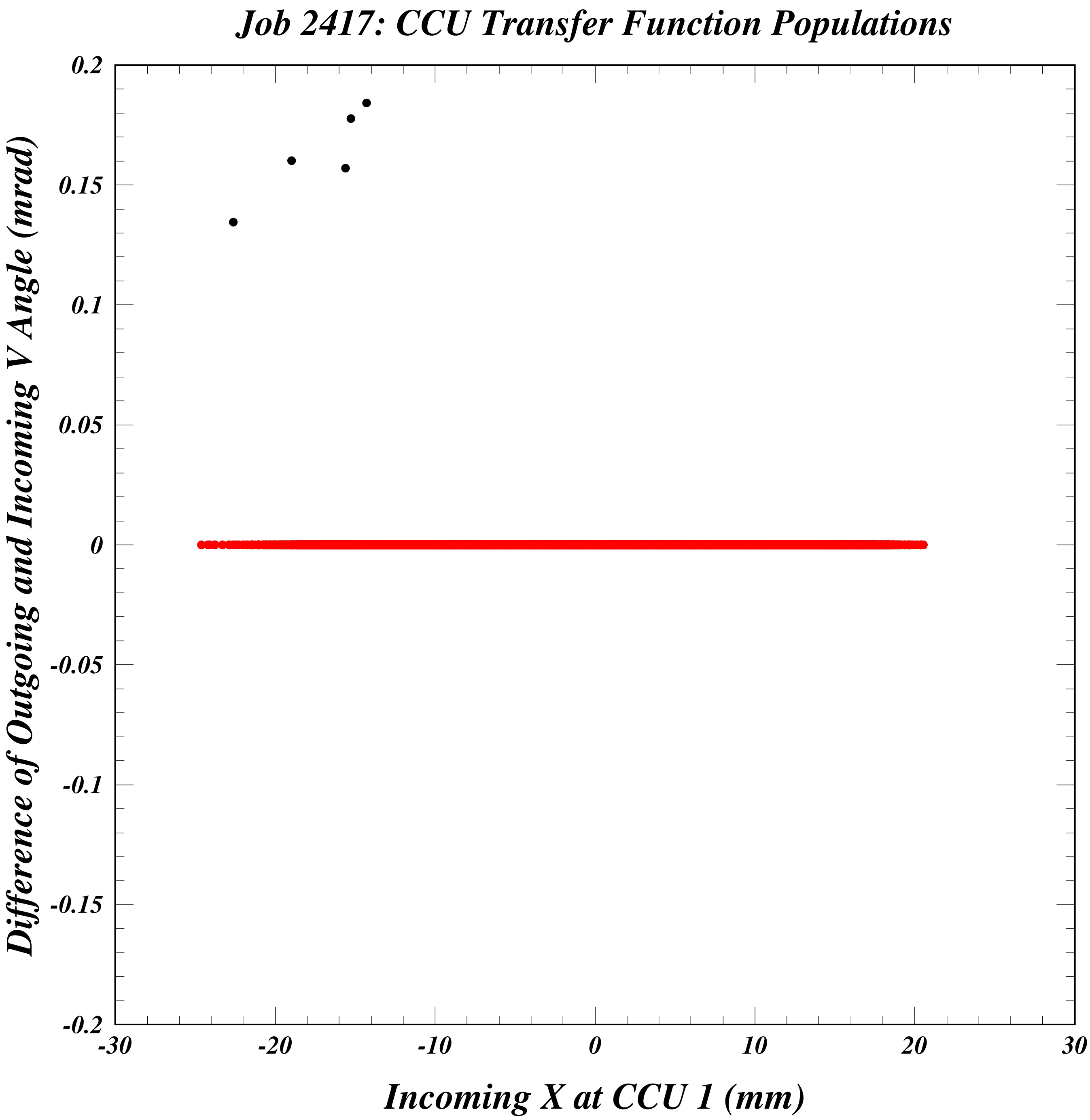
15/03/23 11.41

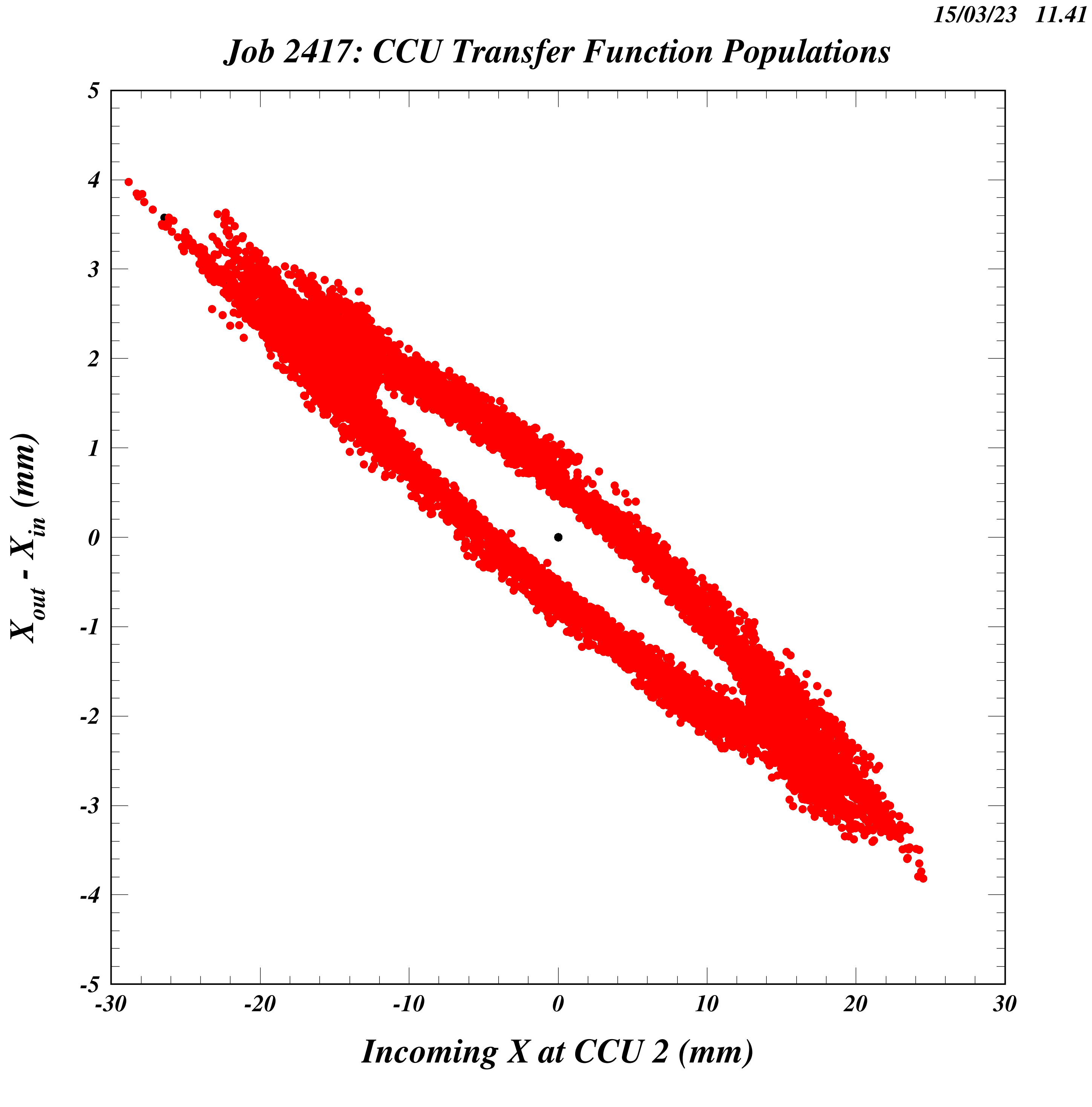

Job 2417: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
Incoming YP at CCU 1 (mrad)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.3
-0.2
-0.1
0
0.1
0.2
0.3

15/03/23 11.41


Job 2417: CCU Transfer Function Populations
Difference of Outgoing and Incoming H 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)

15/03/23 11.41


Job 2417: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
Incoming X at CCU 1 (mm)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-30
-20
-10
0
10
20
30


15/03/23 11.41
Job 2417: 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)

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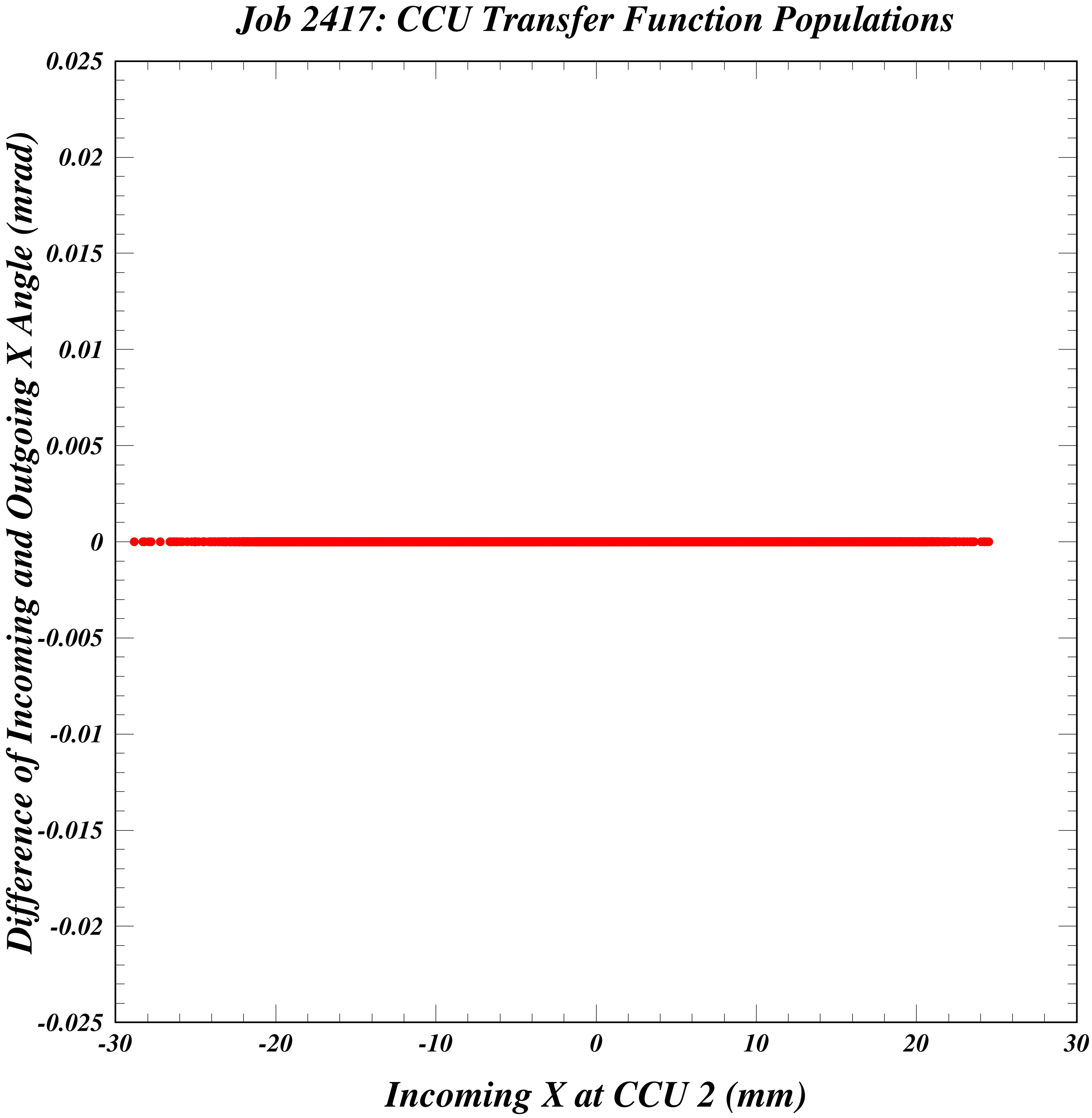
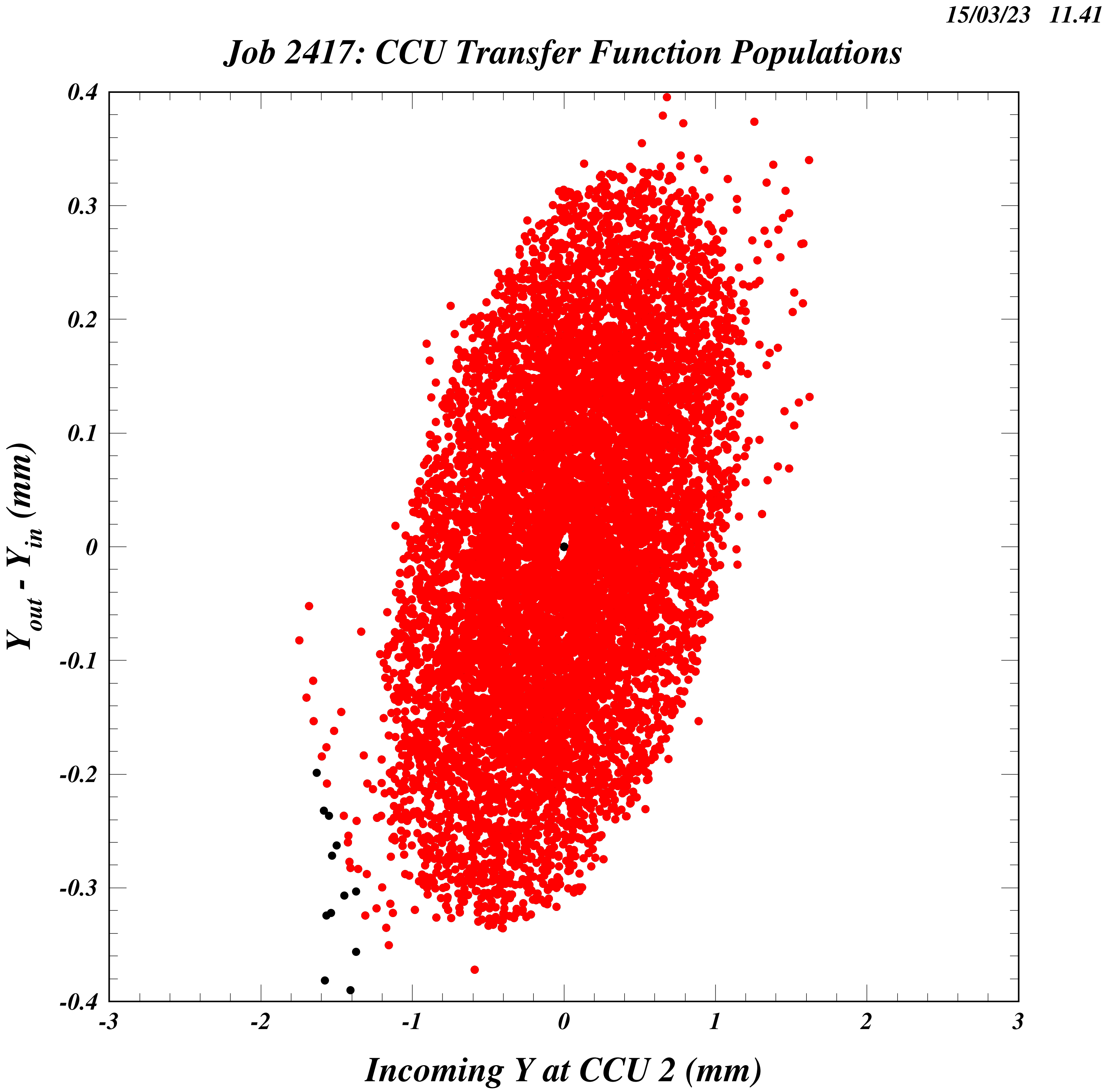
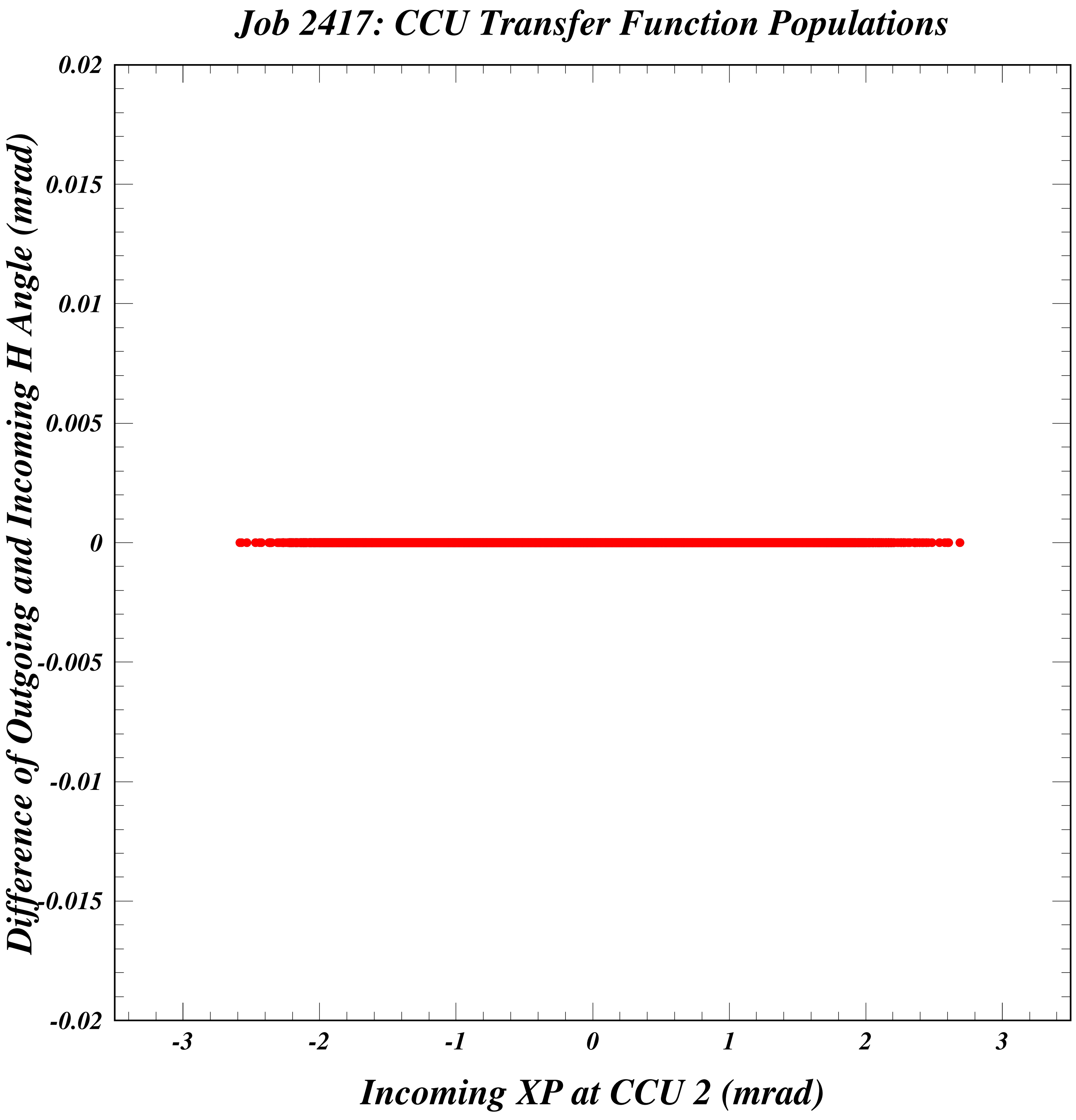
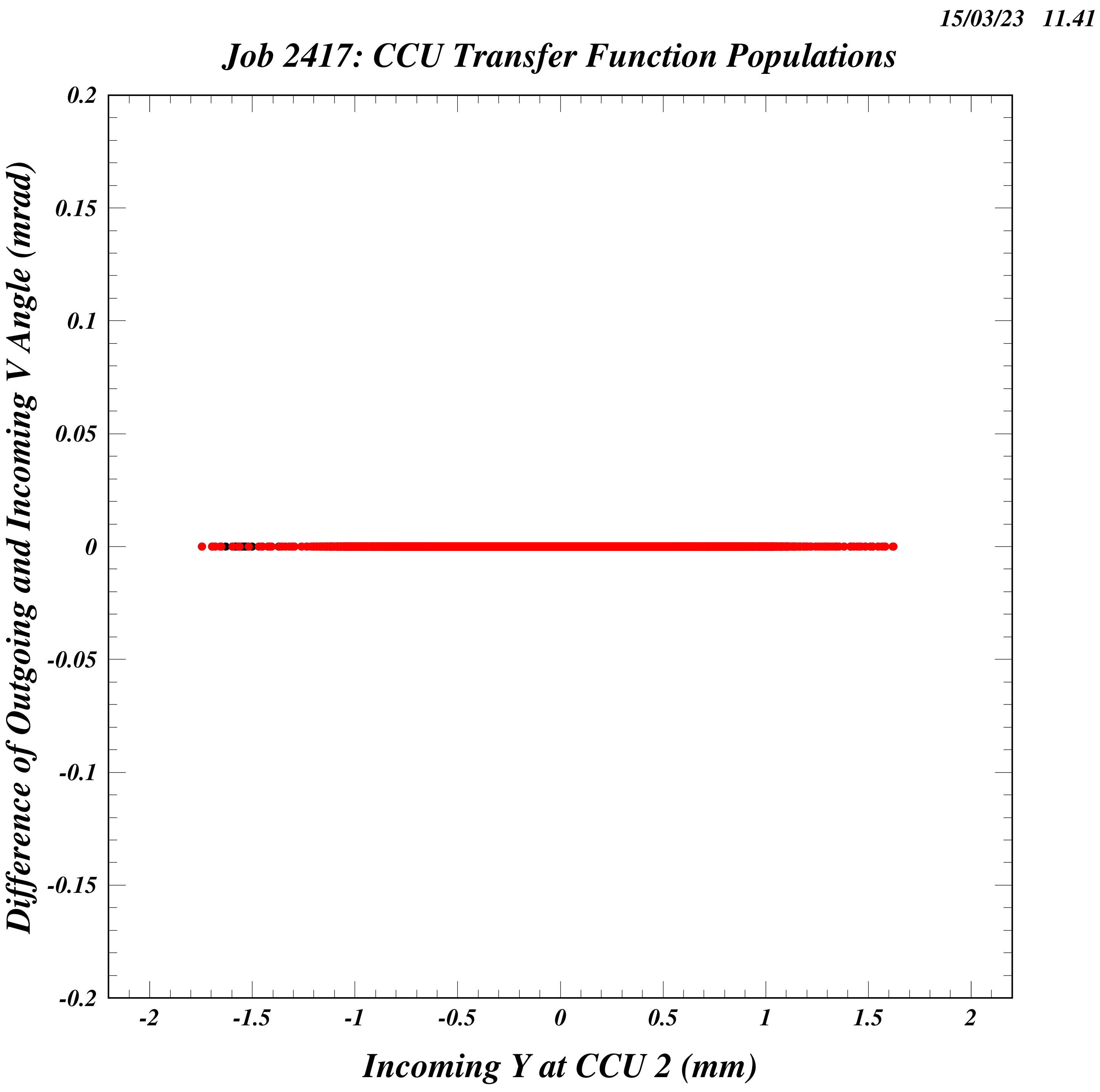


Job 2417: CCU Transfer Function Populations
Difference of Incoming and Outgoing X Angle (mrad)
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
-30
-20
-10
0
10
20
30
Incoming X at CCU 2 (mm)


15/03/23 11.41
Job 2417: CCU Transfer Function Populations
$Y_{out} - Y_{in}$ (mm)
Incoming Y at CCU 2 (mm)
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-3
-2
-1
0
1
2
3

15/03/23 11.41


Job 2417: 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)


15/03/23 11.41
Job 2417: 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)

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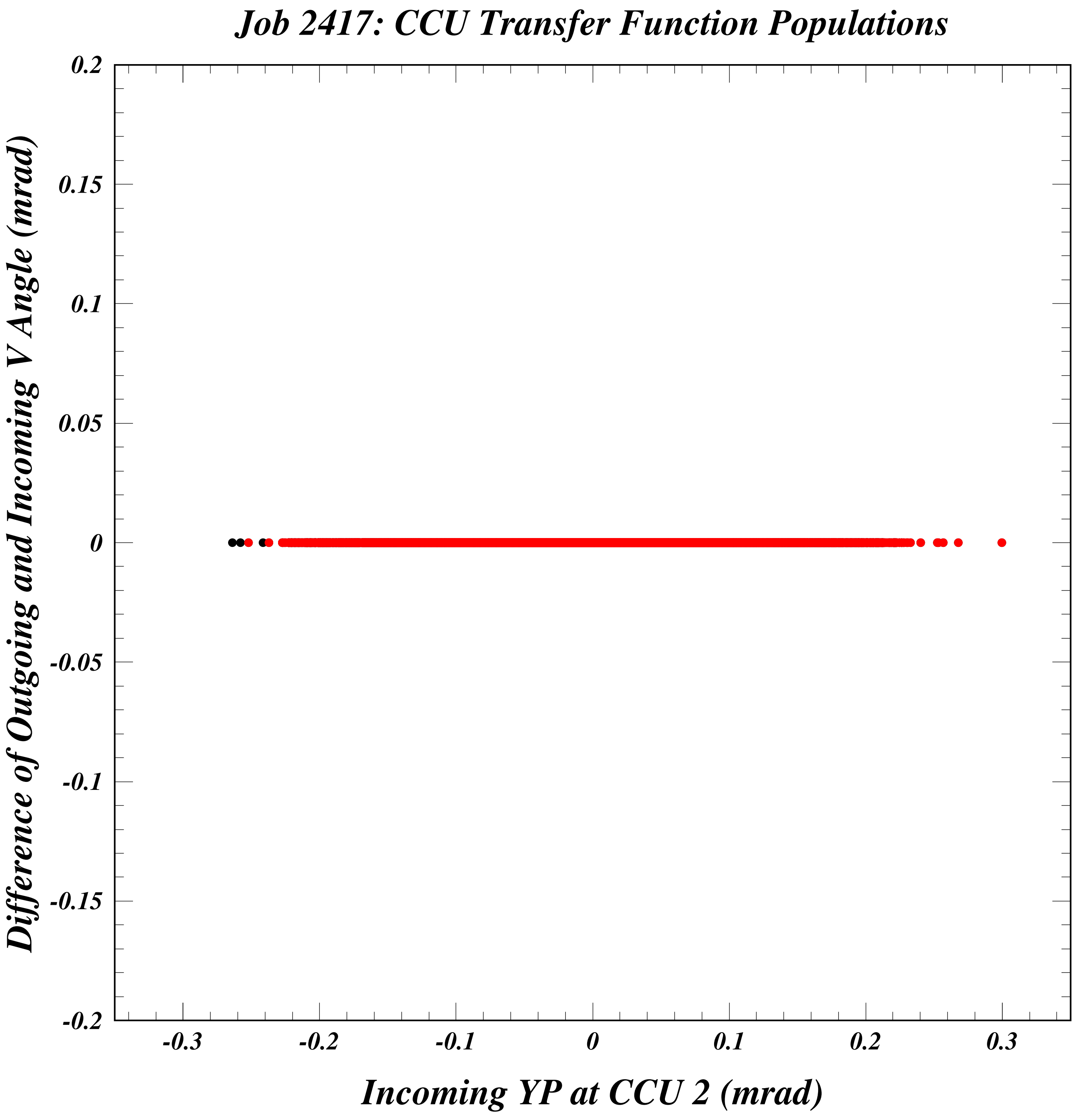
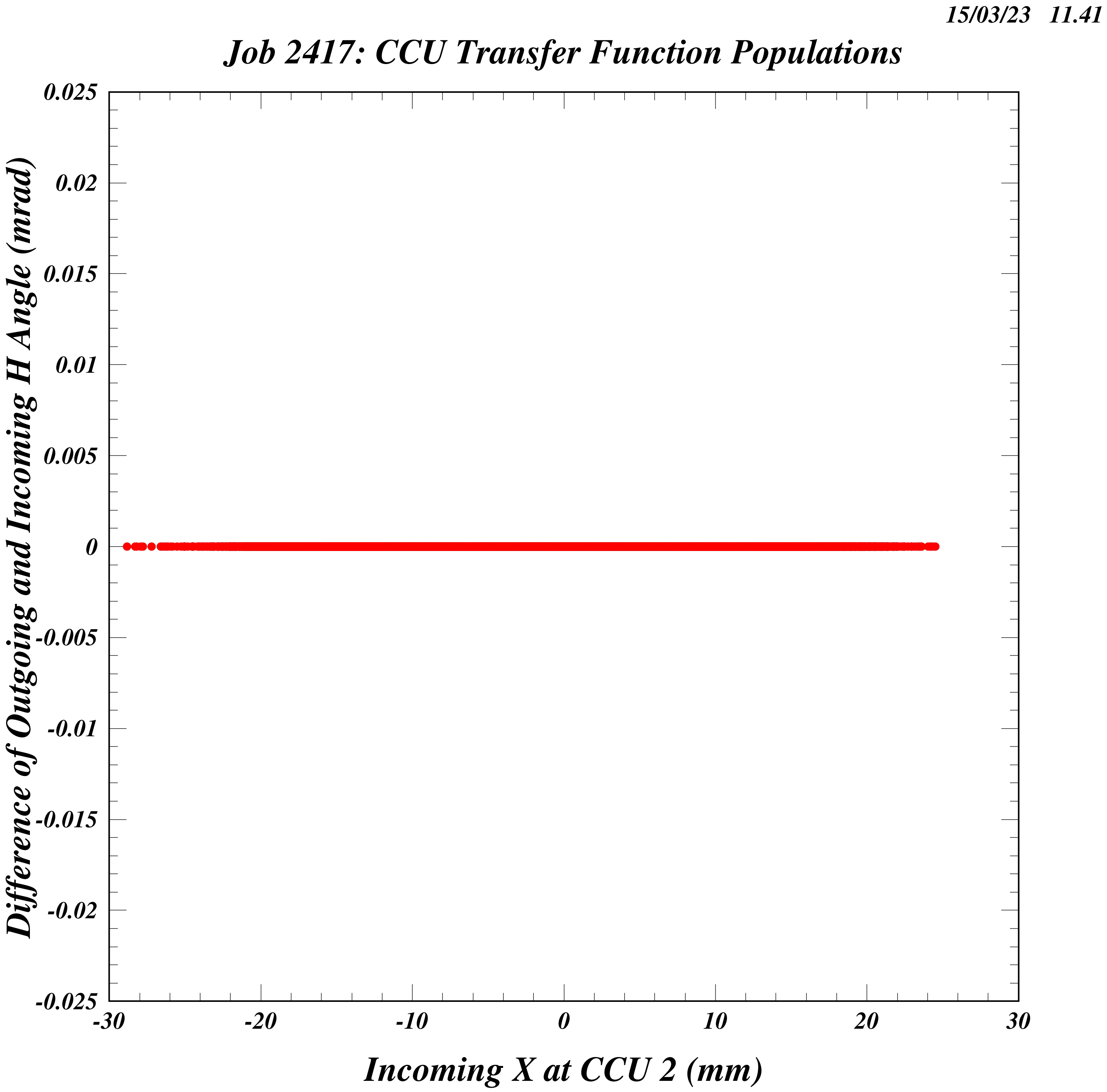
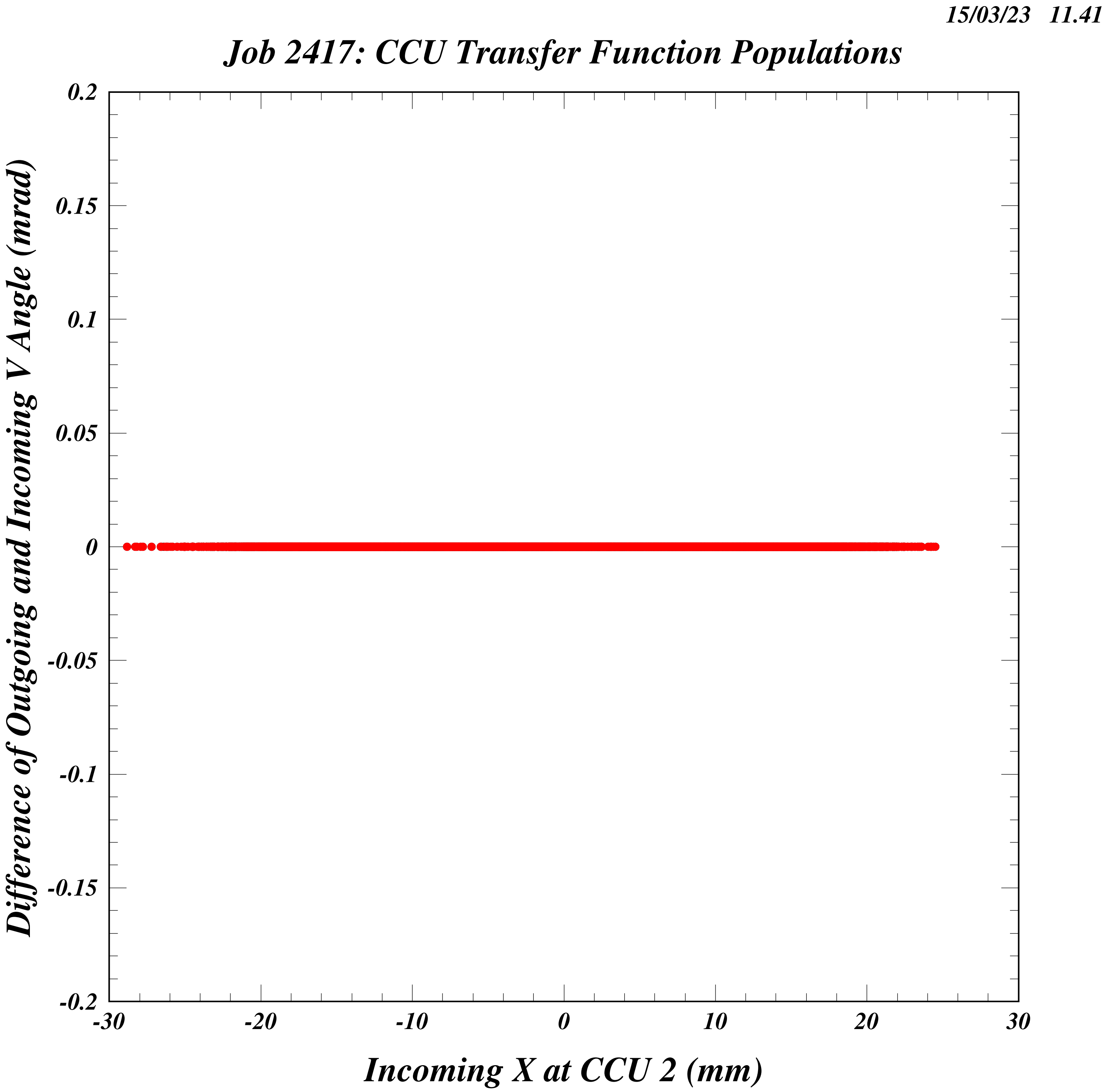

Job 2417: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
Incoming YP at CCU 2 (mrad)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.3
-0.2
-0.1
0
0.1
0.2
0.3


15/03/23 11.41
Job 2417: CCU Transfer Function Populations
Difference of Outgoing and Incoming H 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 2 (mm)


15/03/23 11.41
Job 2417: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
Incoming X at CCU 2 (mm)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-30
-20
-10
0
10
20
30