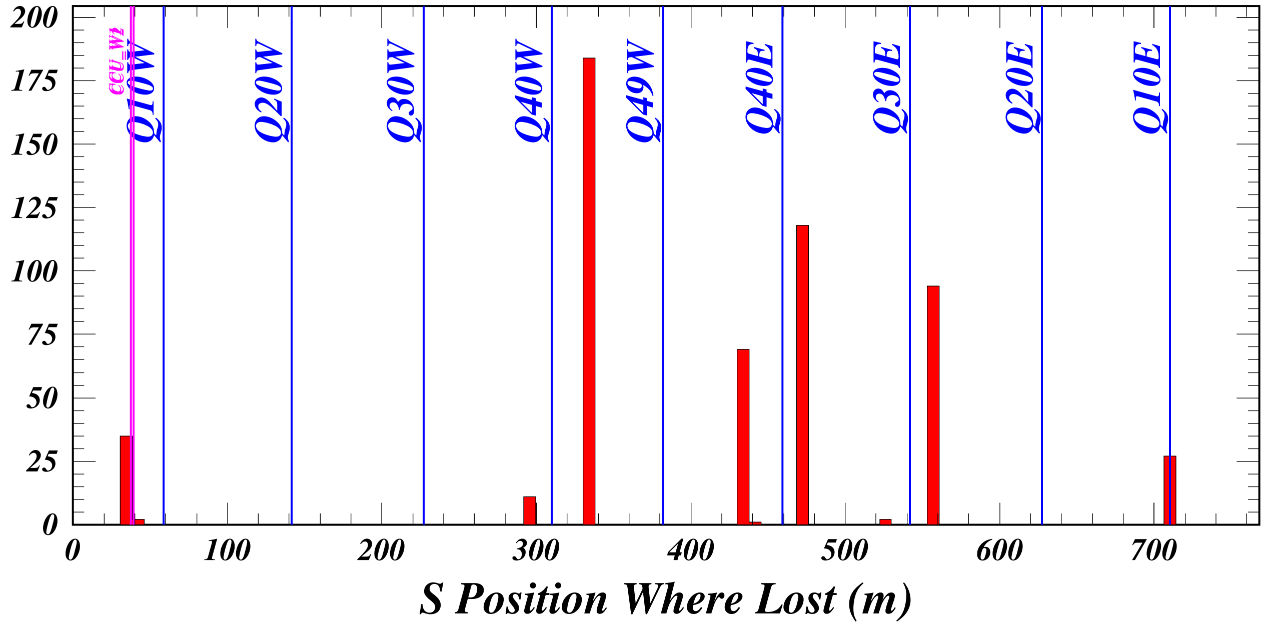
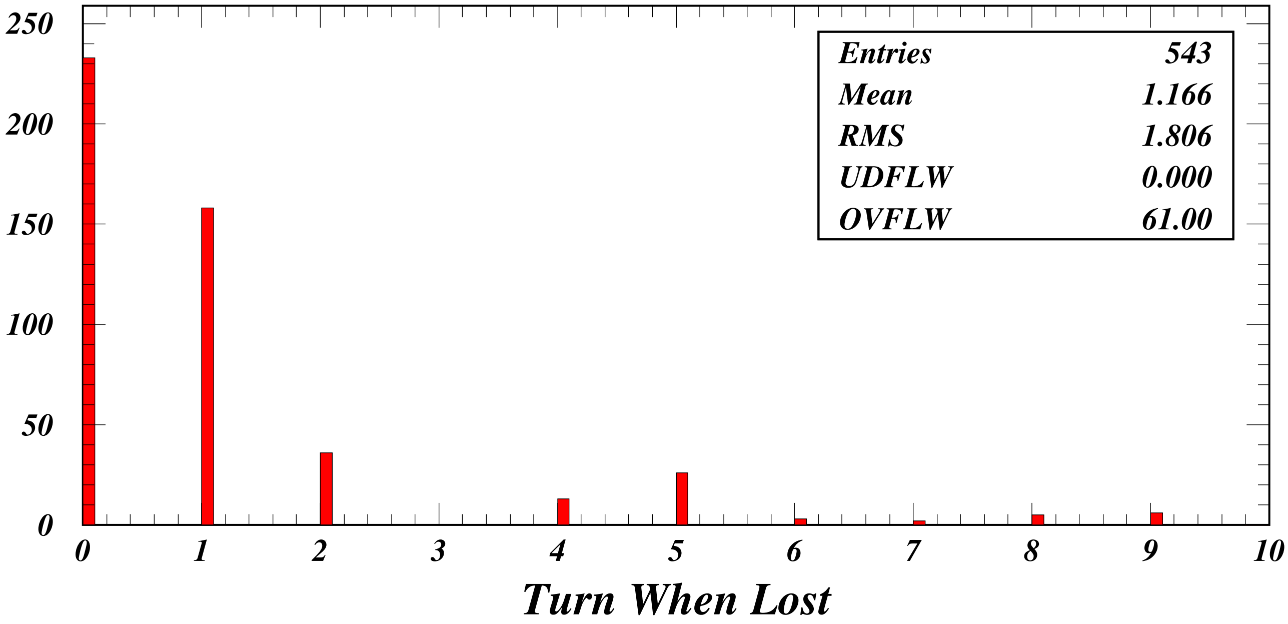
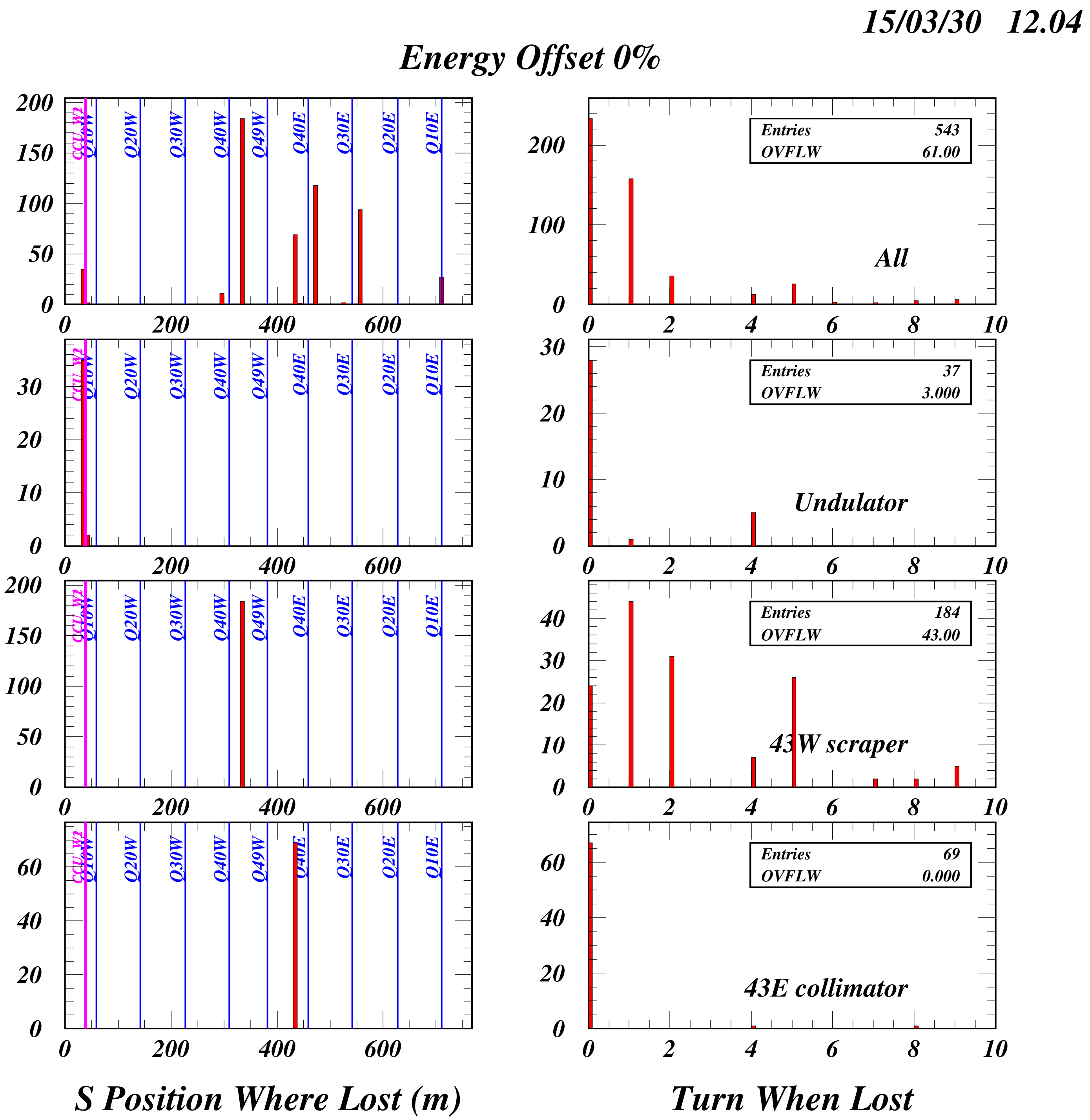
15/03/30 12.04

Energy Offset 0%






15/03/30 12.04
Energy Offset 0%
CCU_W2
Q10W
Q20W
Q30W
Q40W
Q49W
Q40E
Q30E
Q20E
Q10E
Entries 543
OVFLW 61.00
All
Entries 37
OVFLW 3.000
Undulator
Entries 184
OVFLW 43.00
43W scraper
Entries 69
OVFLW 0.000
43E collimator
S Position Where Lost (m)
Turn When Lost

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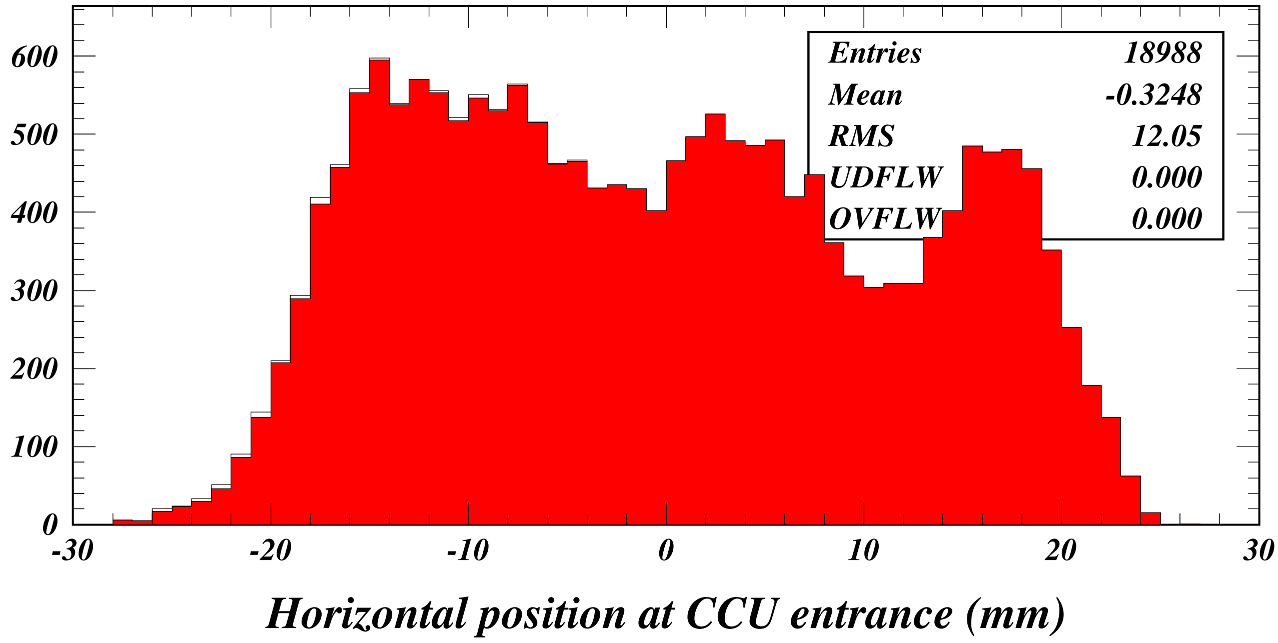
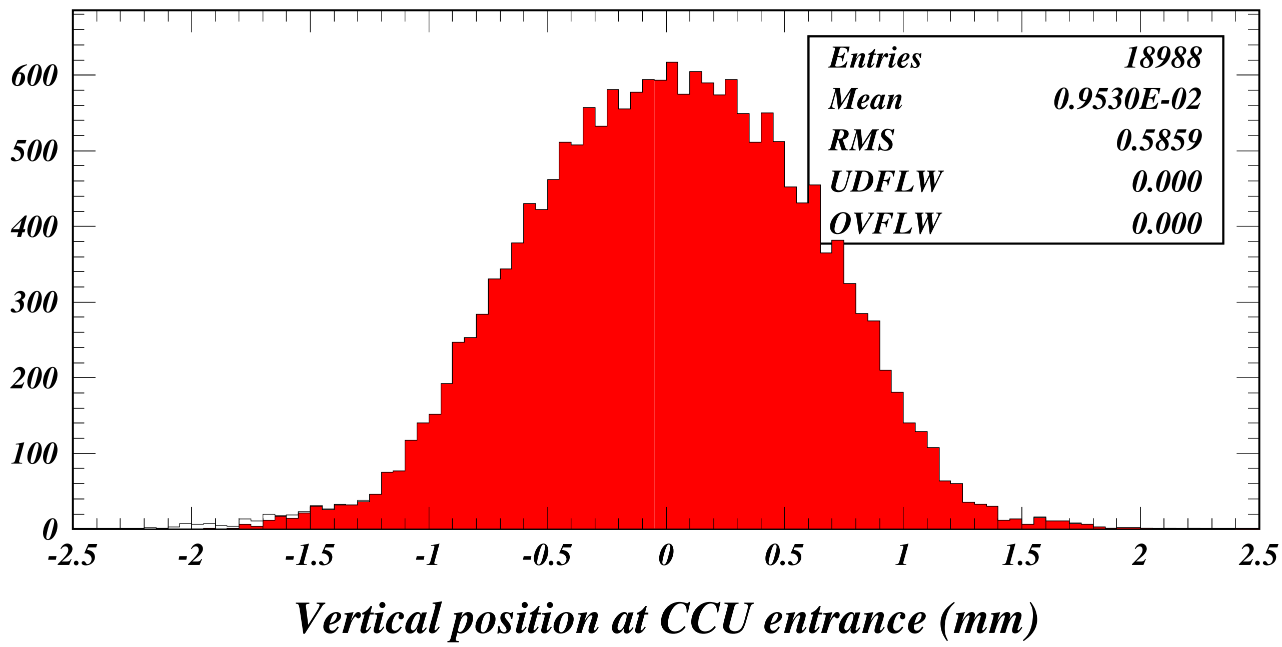
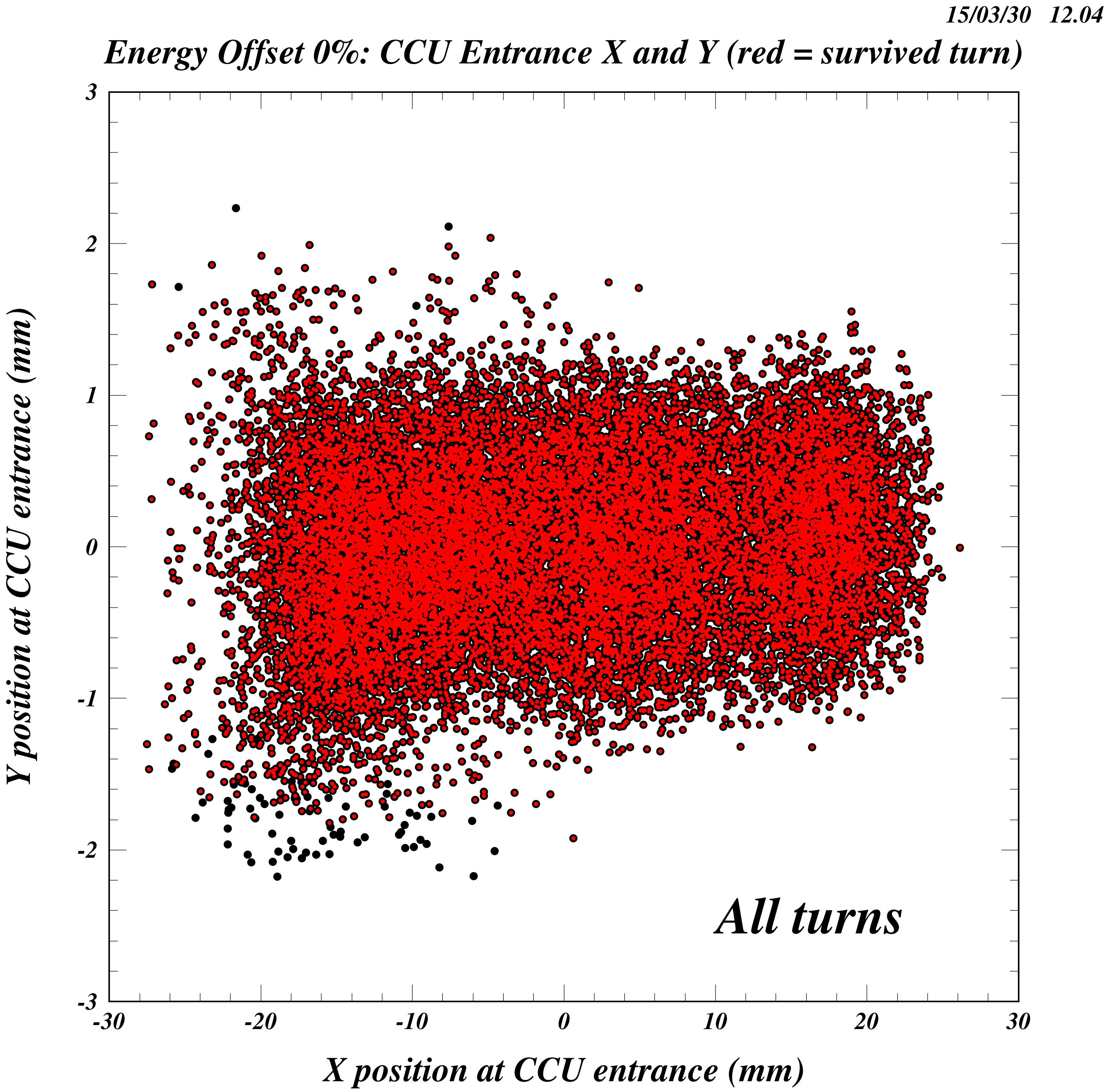
Energy Offset 0%: CCU Entrance X and Y (red = survived turn)






15/03/30 12.04
Energy Offset 0%: CCU Entrance X and Y (red = survived turn)
3
2
1
0
-1
-2
-3
Y position at CCU entrance (mm)
-30
-20
-10
0
10
20
30
X position at CCU entrance (mm)
All turns

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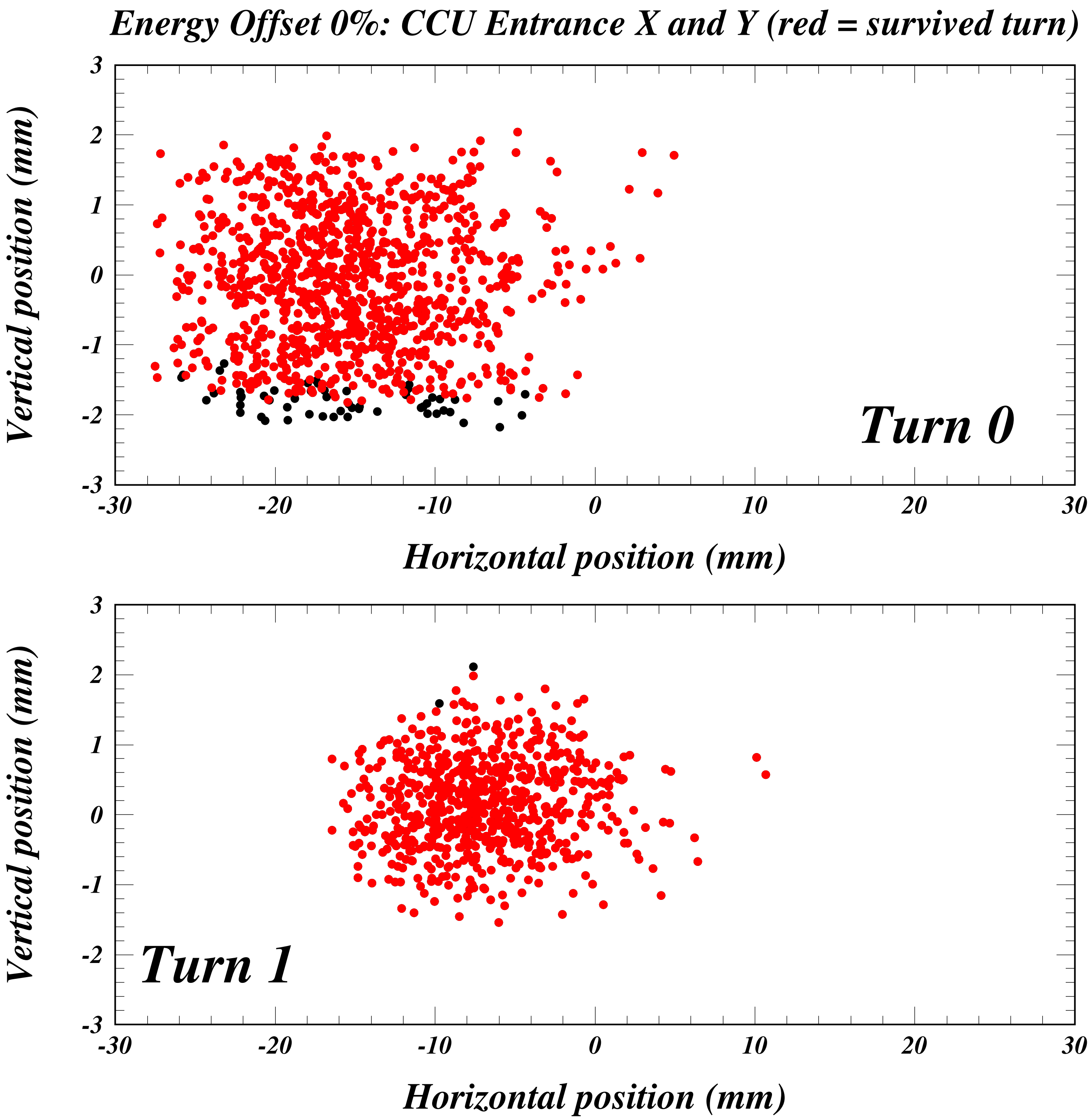
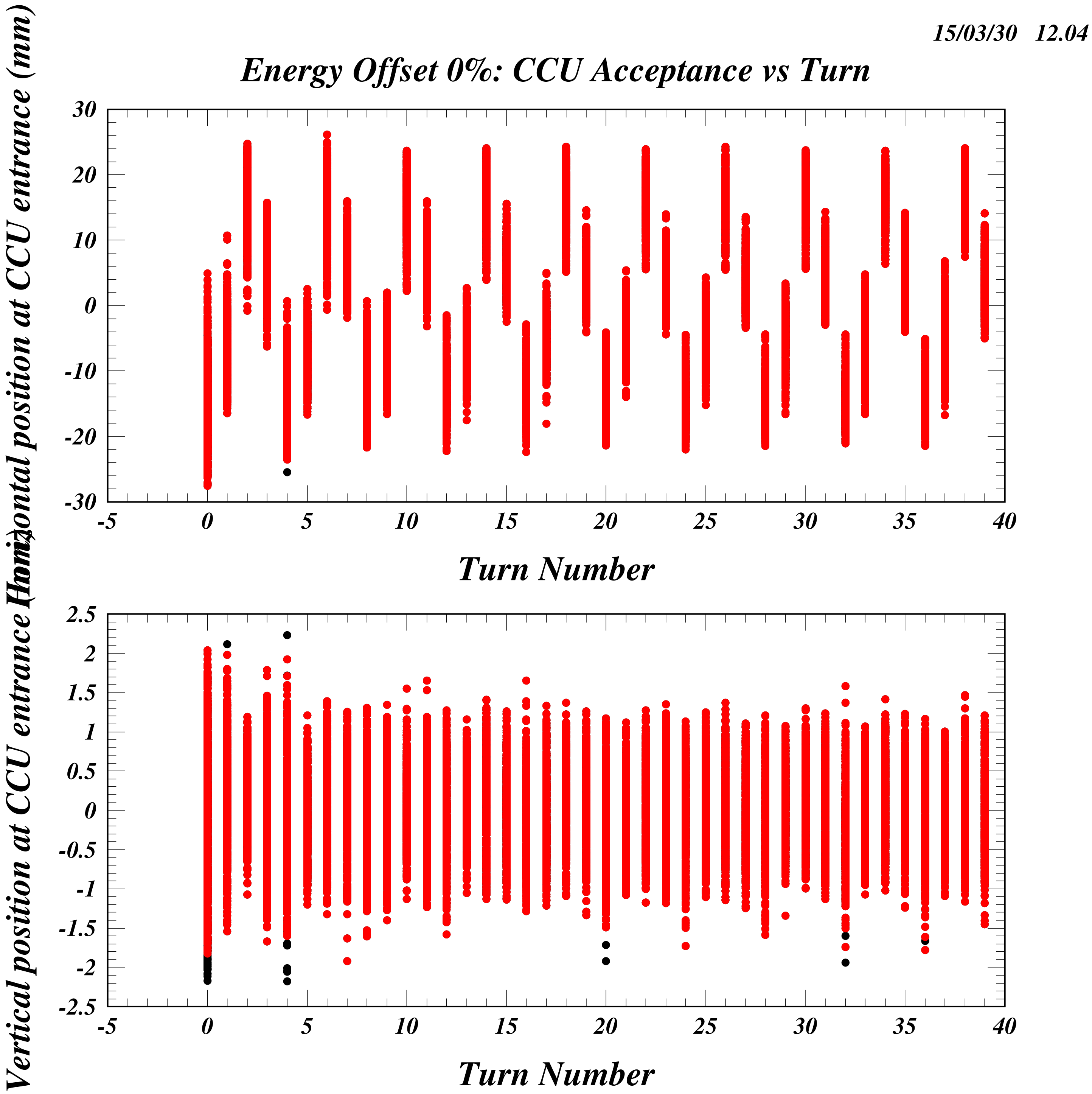
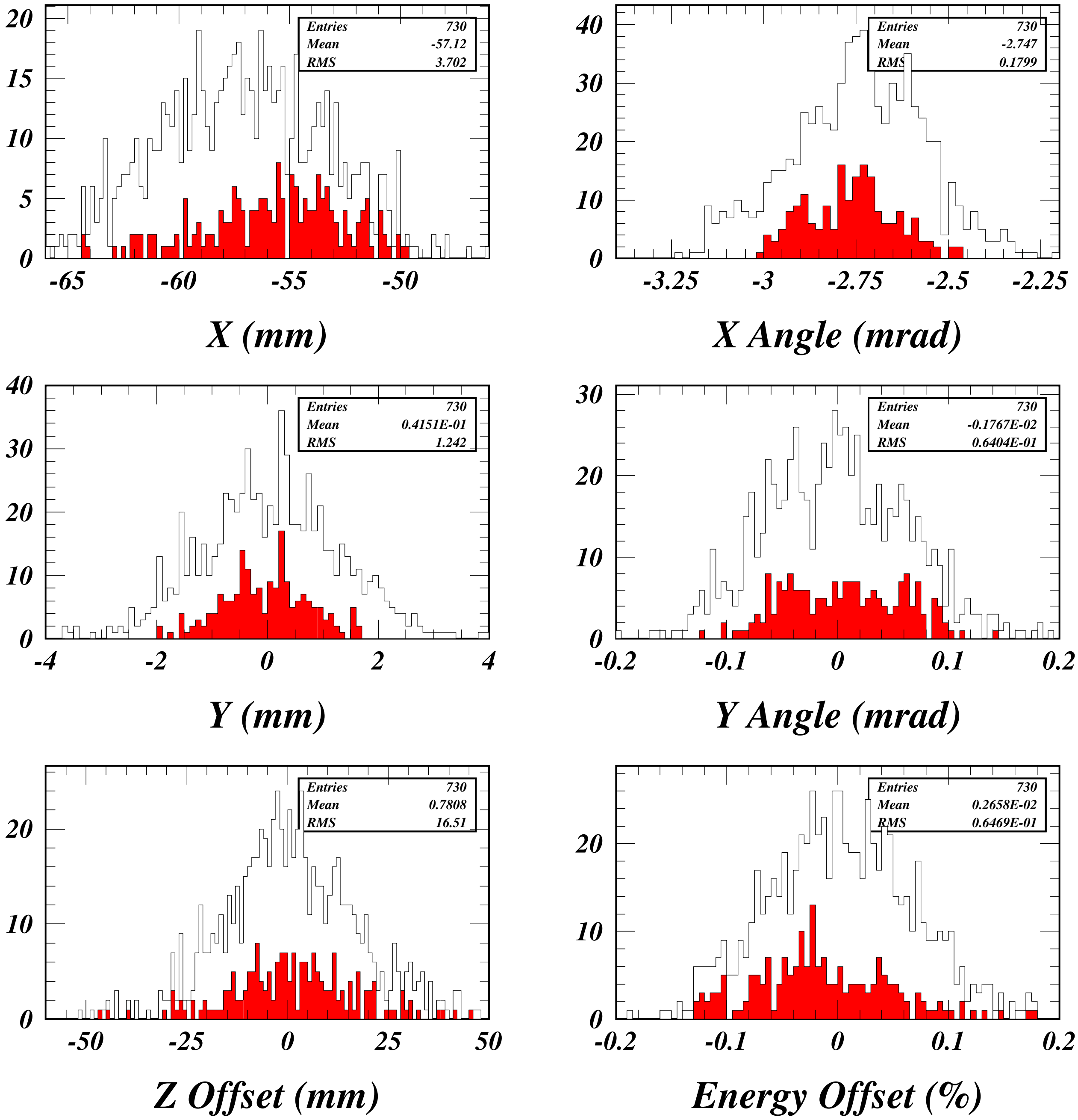


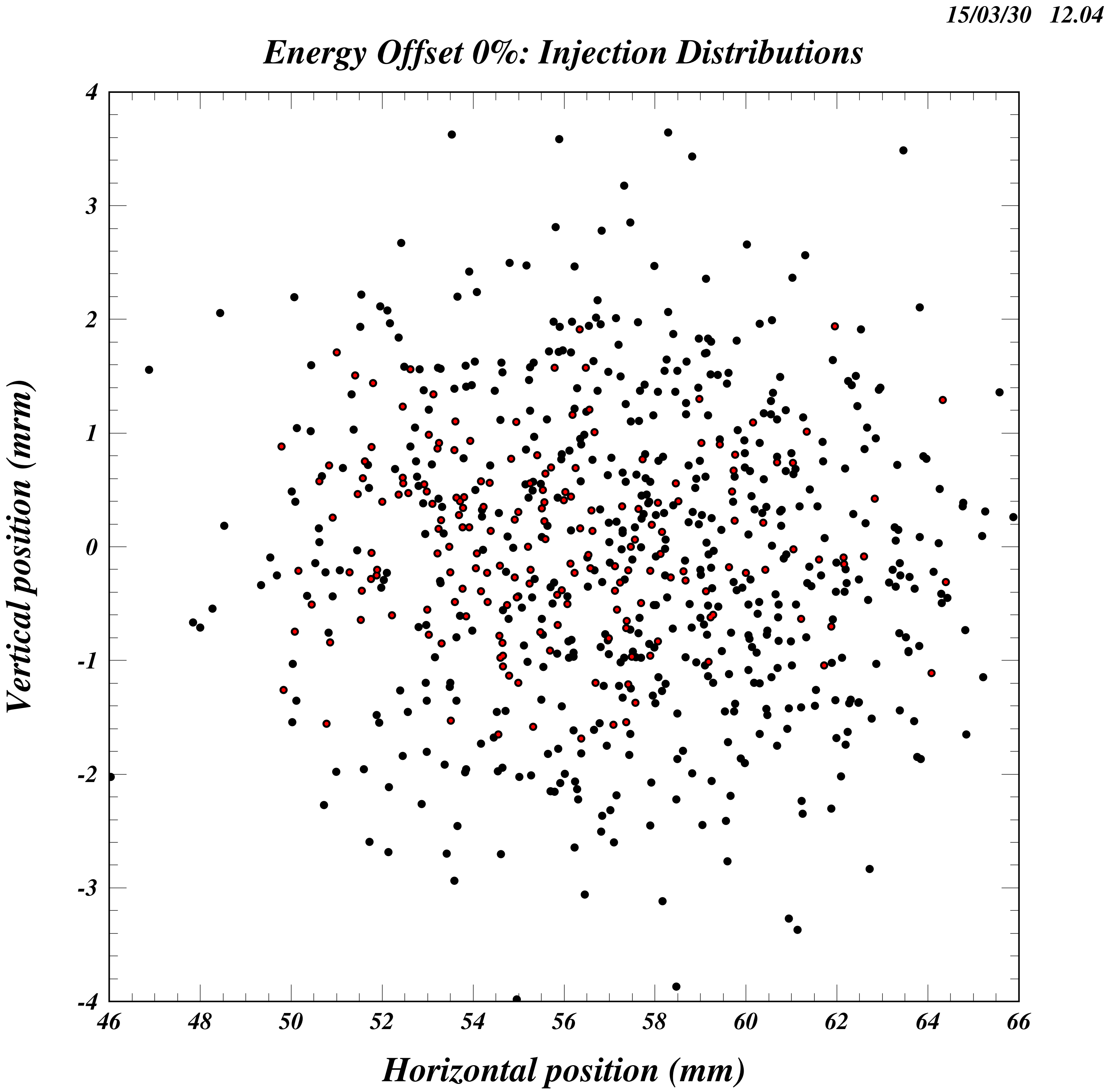
Energy Offset 0%: CCU Entrance X and Y (red = survived turn)
Vertical position (mm)
Horizontal position (mm)
Turn 0
Vertical position (mm)
Horizontal position (mm)
Turn 1


15/03/30 12.04
Energy Offset 0%: CCU Acceptance vs Turn
Horizontal position at CCU entrance (mm)
Turn Number
Vertical position at CCU entrance (mm)
Turn Number

15/03/30 12.04

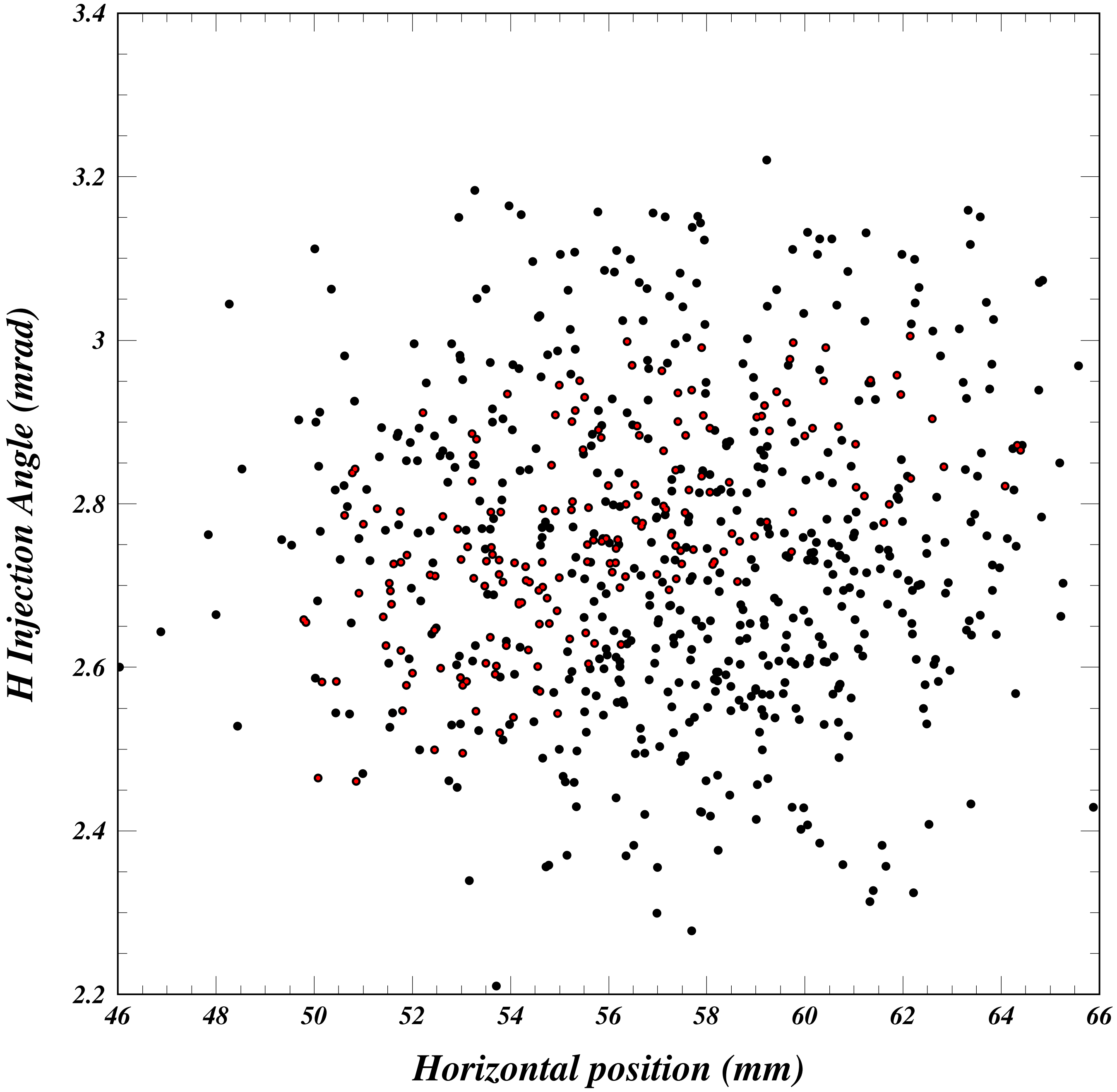
Energy Offset 0%: Injection Distributions



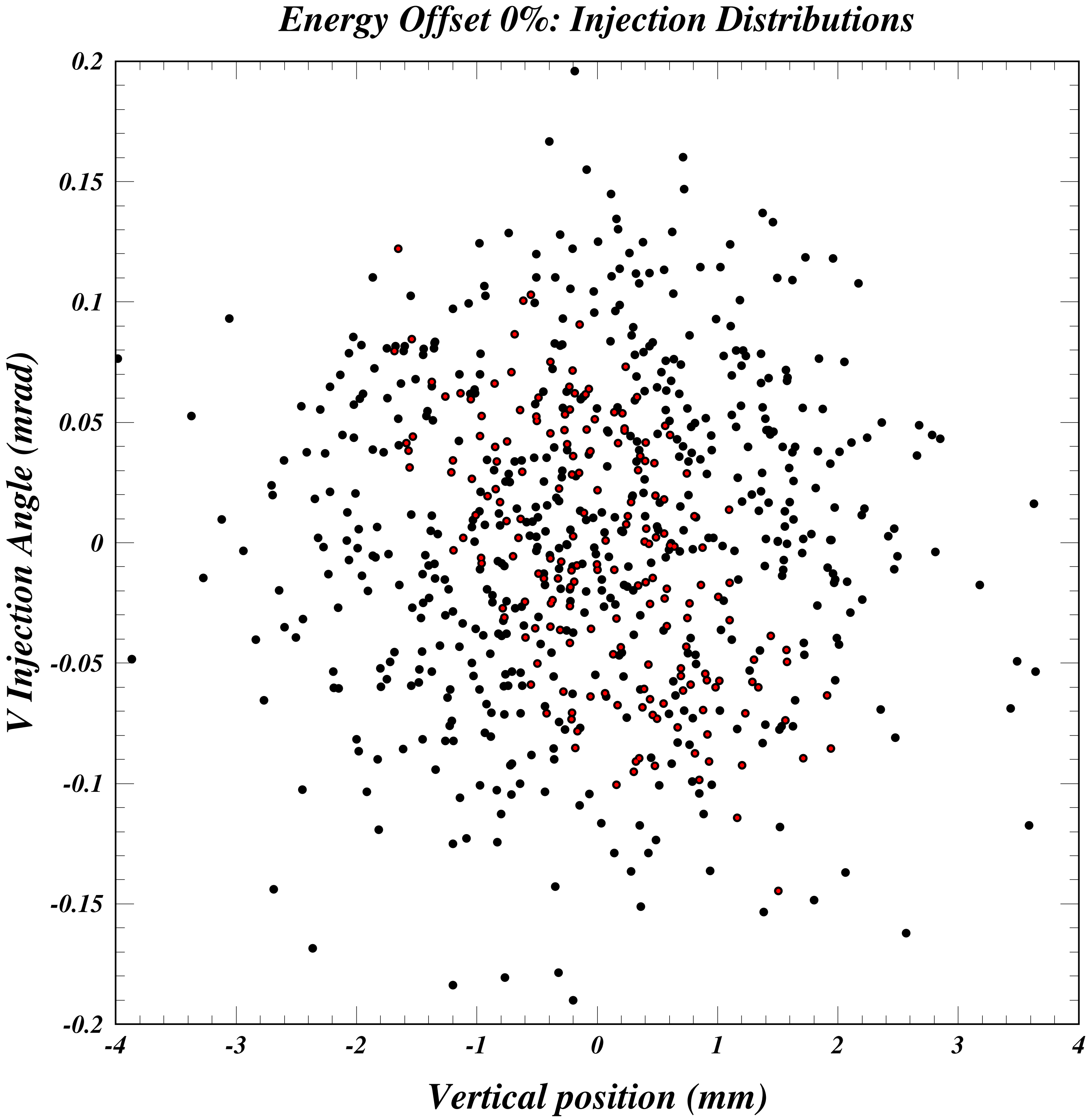

15/03/30 12.04
Energy Offset 0%: Injection Distributions
Vertical position (mrm)
Horizontal position (mm)
4
3
2
1
0
-1
-2
-3
-4
46
48
50
52
54
56
58
60
62
64
66

15/03/30 12.04

Energy Offset 0%: Injection Distributions

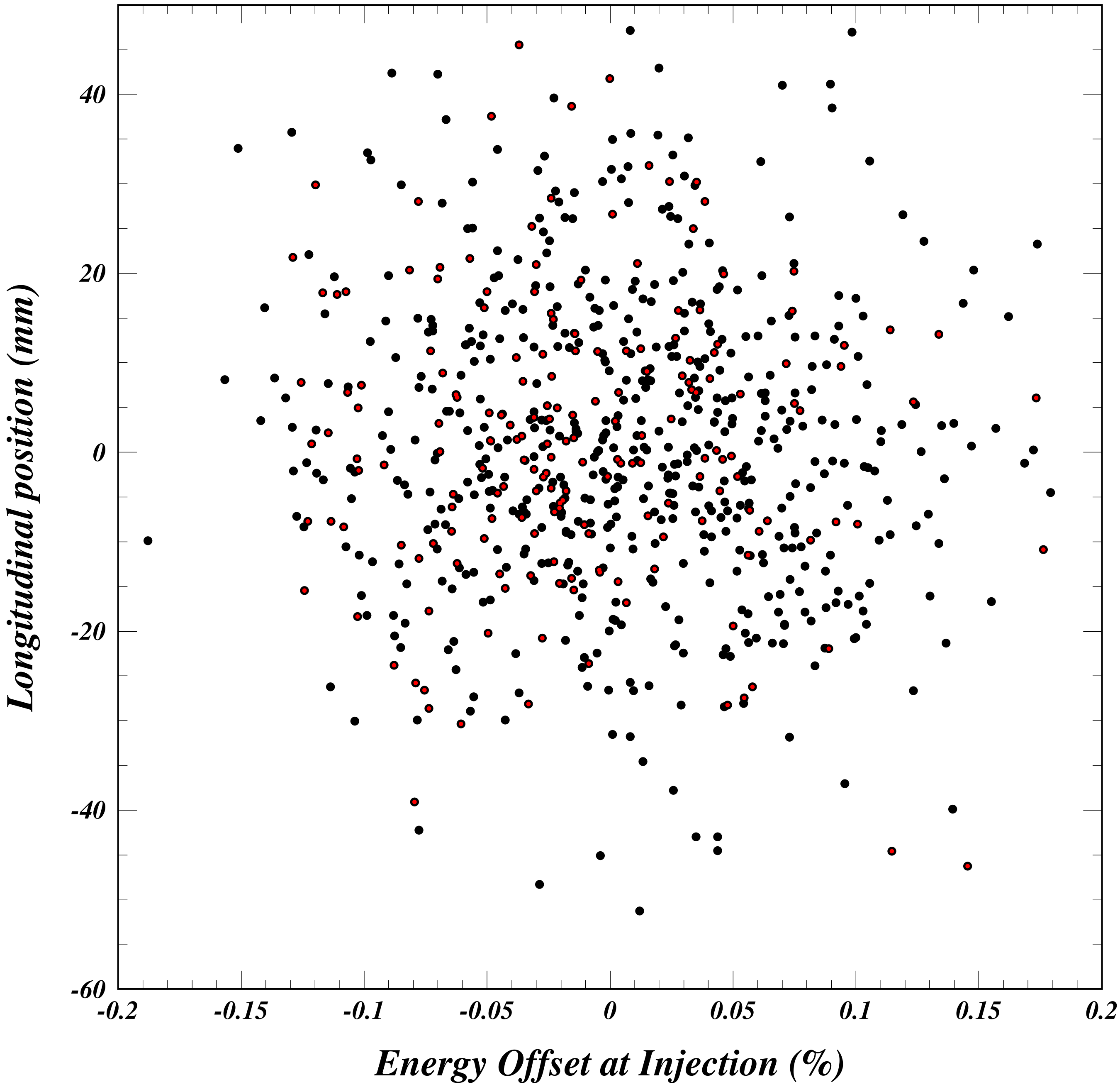


15/03/30 12.04


Energy Offset 0%: Injection Distributions
V Injection Angle (mrad)
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
Vertical position (mm)

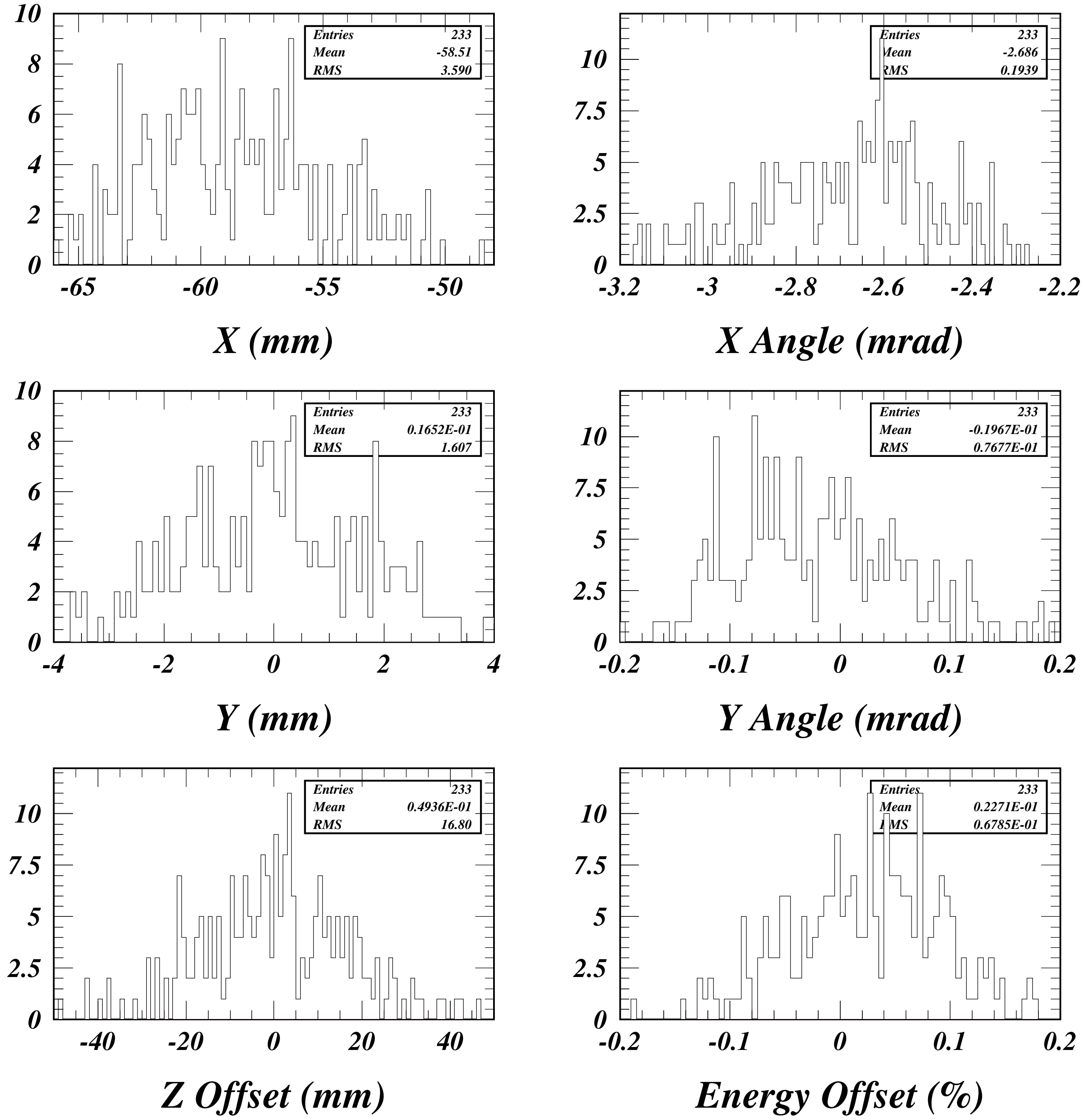
15/03/30 12.04

Energy Offset 0%: Injection Distributions

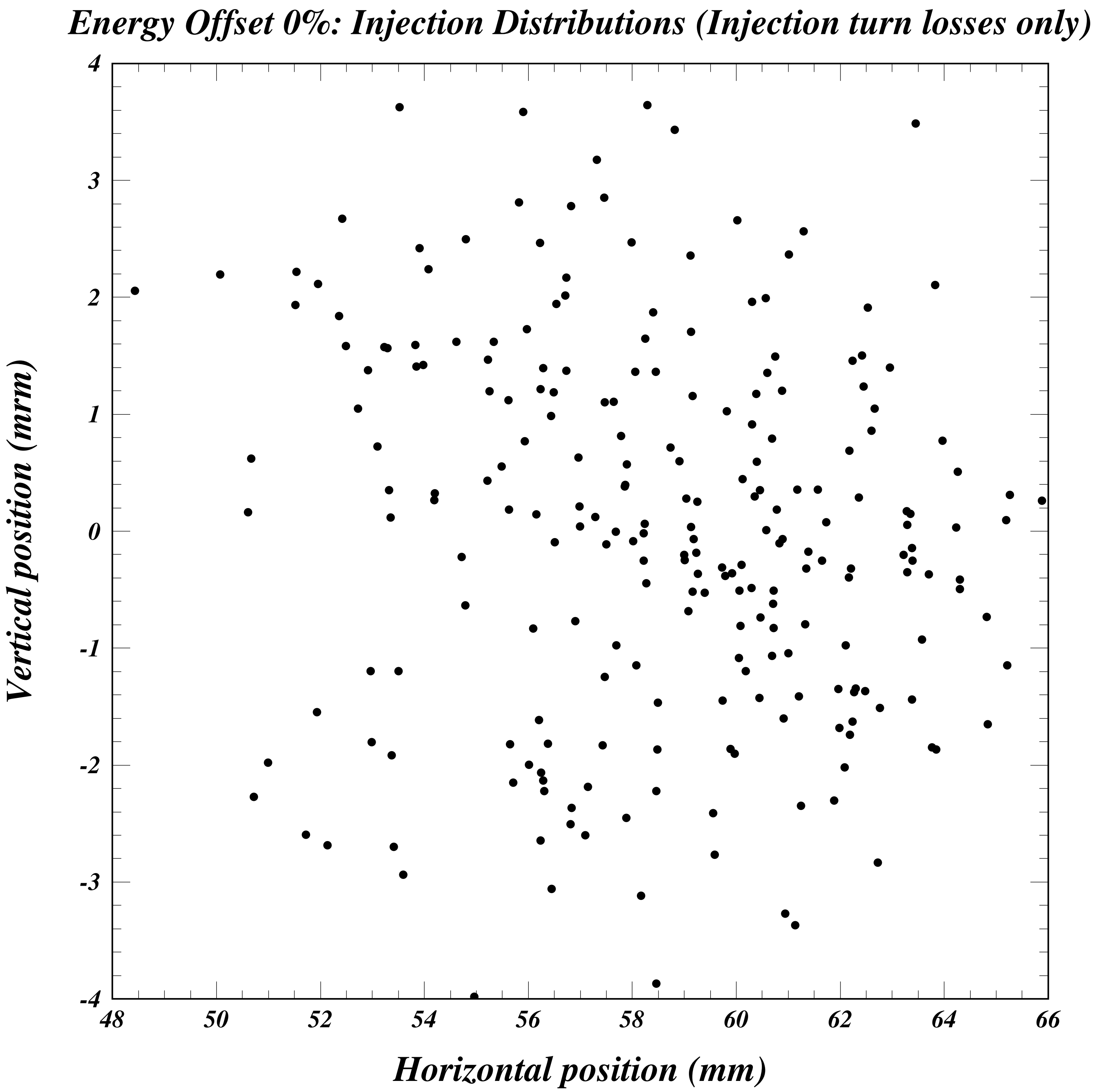


15/03/30 12.04

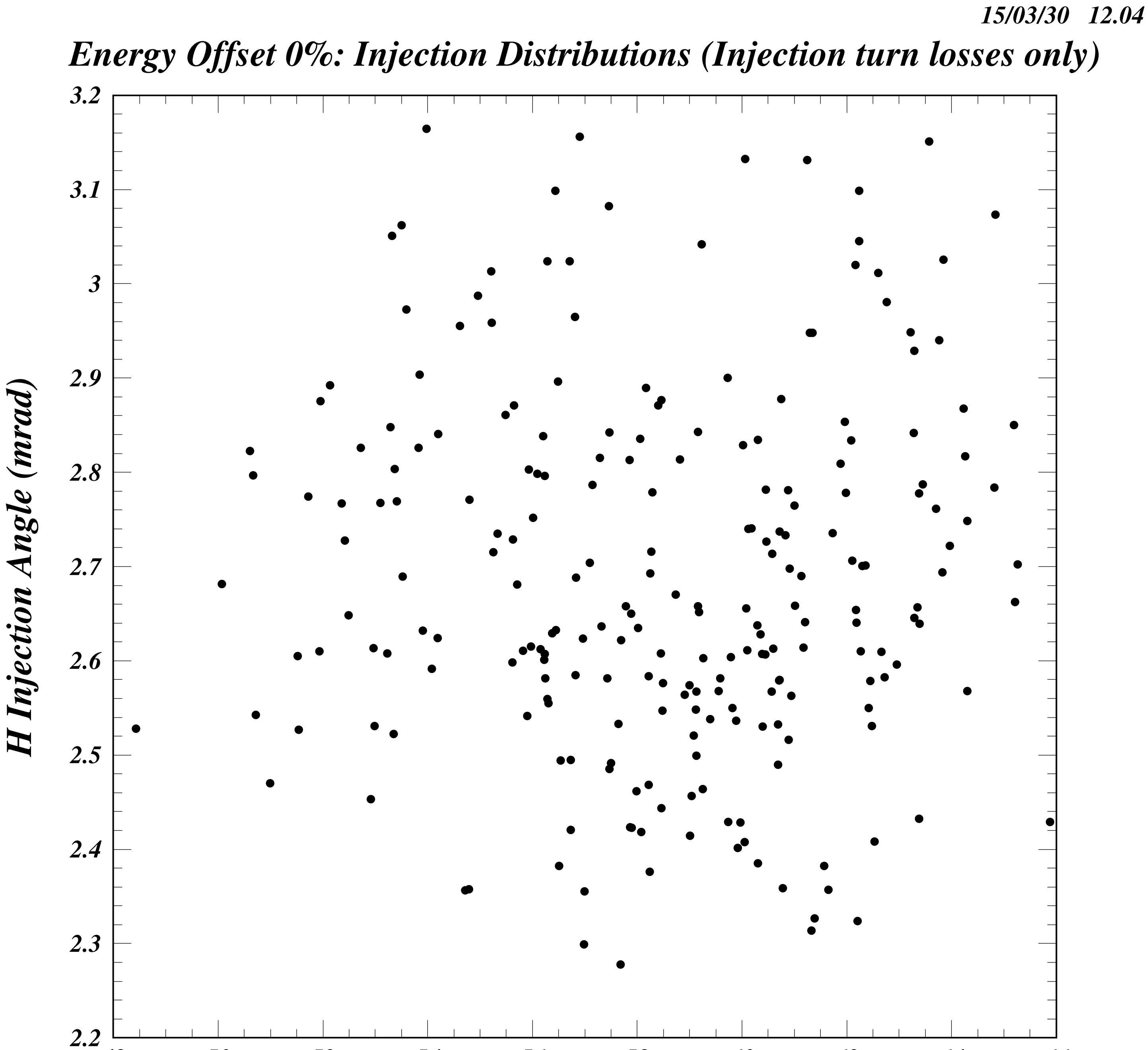
Energy Offset 0%: Injection Distributions (Injection turn losses only)



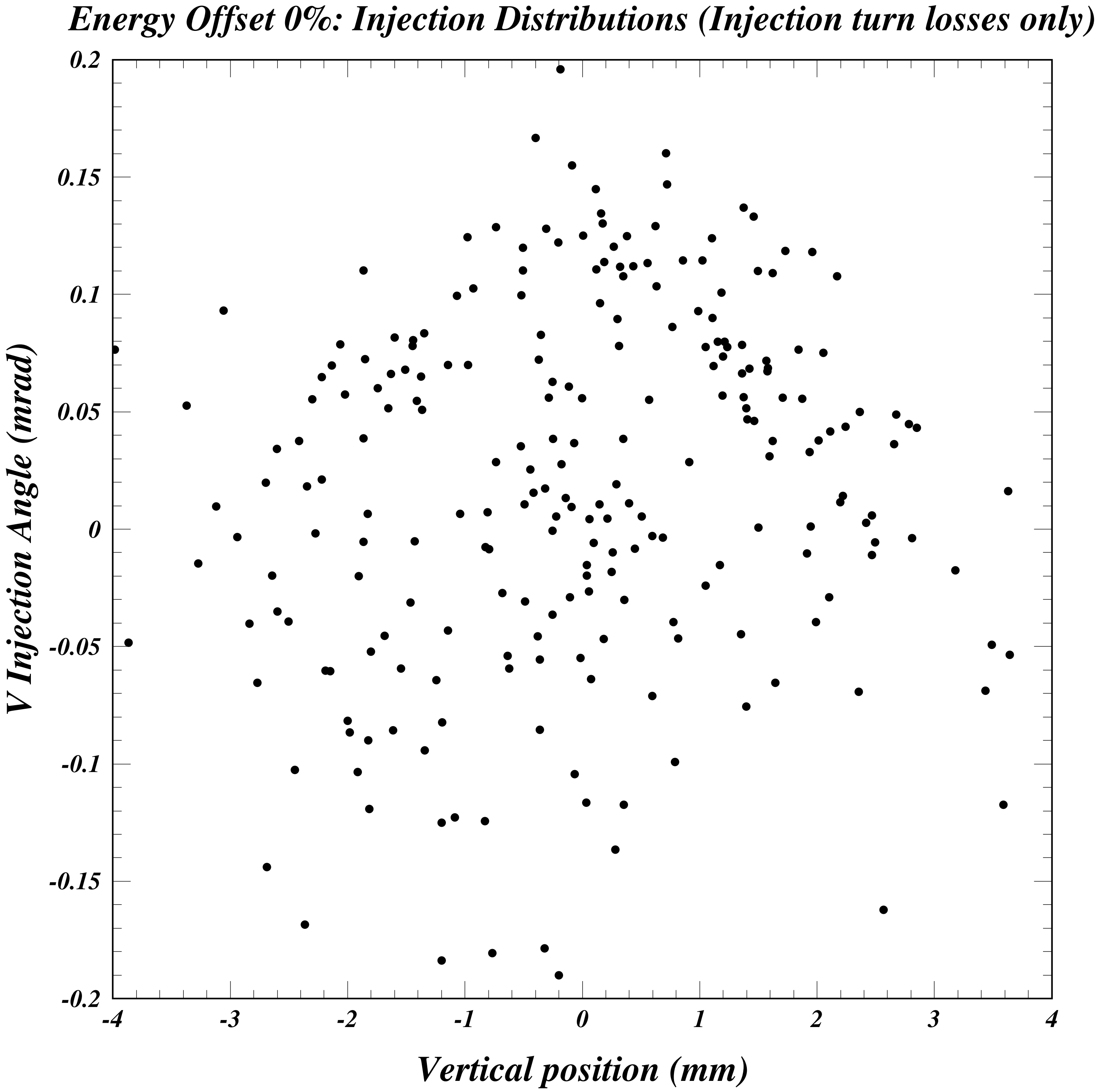
15/03/30 12.04

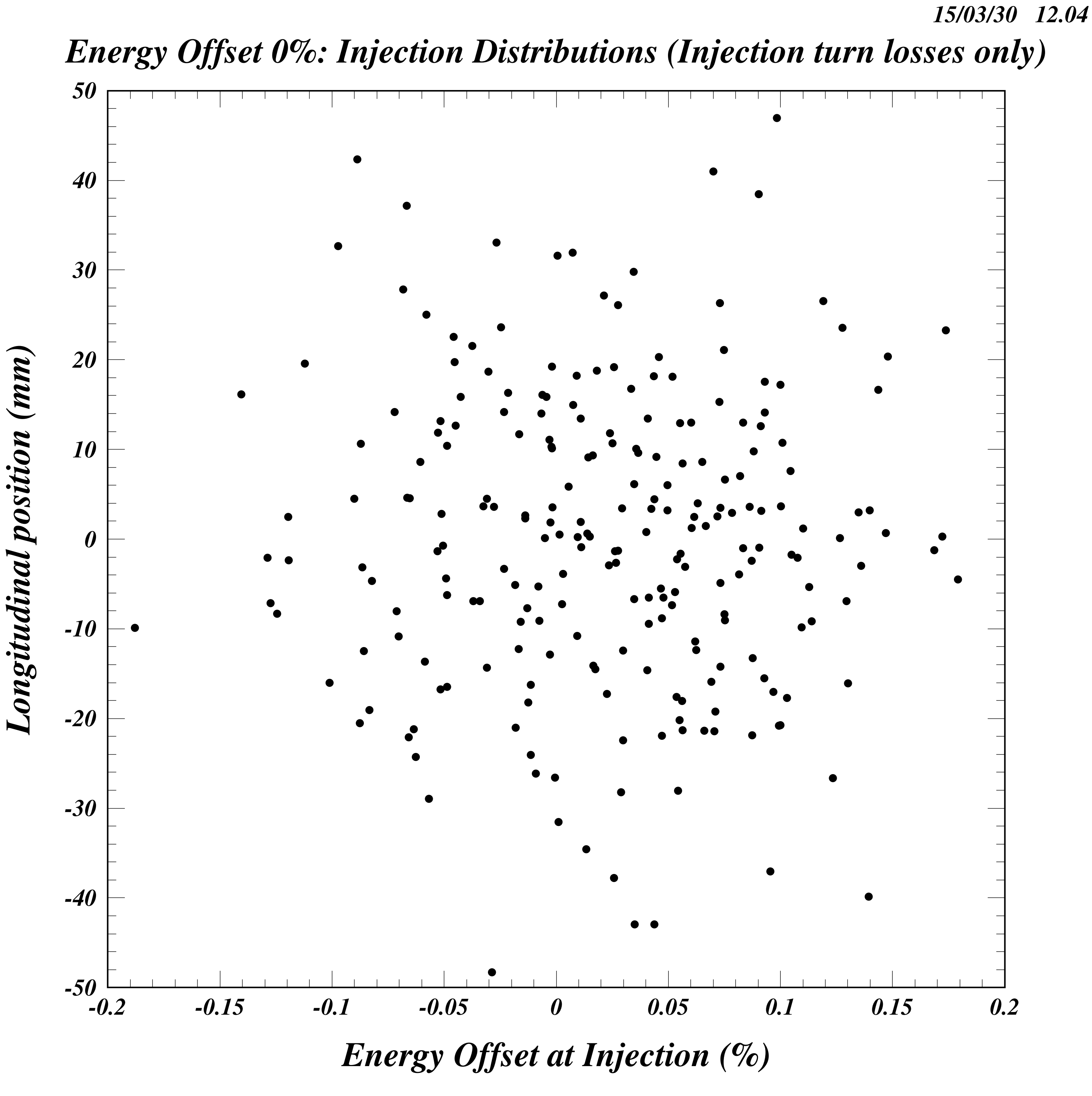


Energy Offset 0%: Injection Distributions (Injection turn losses only)
Vertical position (mrm)
Horizontal position (mm)
4
3
2
1
0
-1
-2
-3
-4
48
50
52
54
56
58
60
62
64
66


15/03/30 12.04
Energy Offset 0%: 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 12.04


Energy Offset 0%: 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 12.04
Energy Offset 0%: Injection Distributions (Injection turn losses only)
Longitudinal position (mm)
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
Energy Offset at Injection (%)

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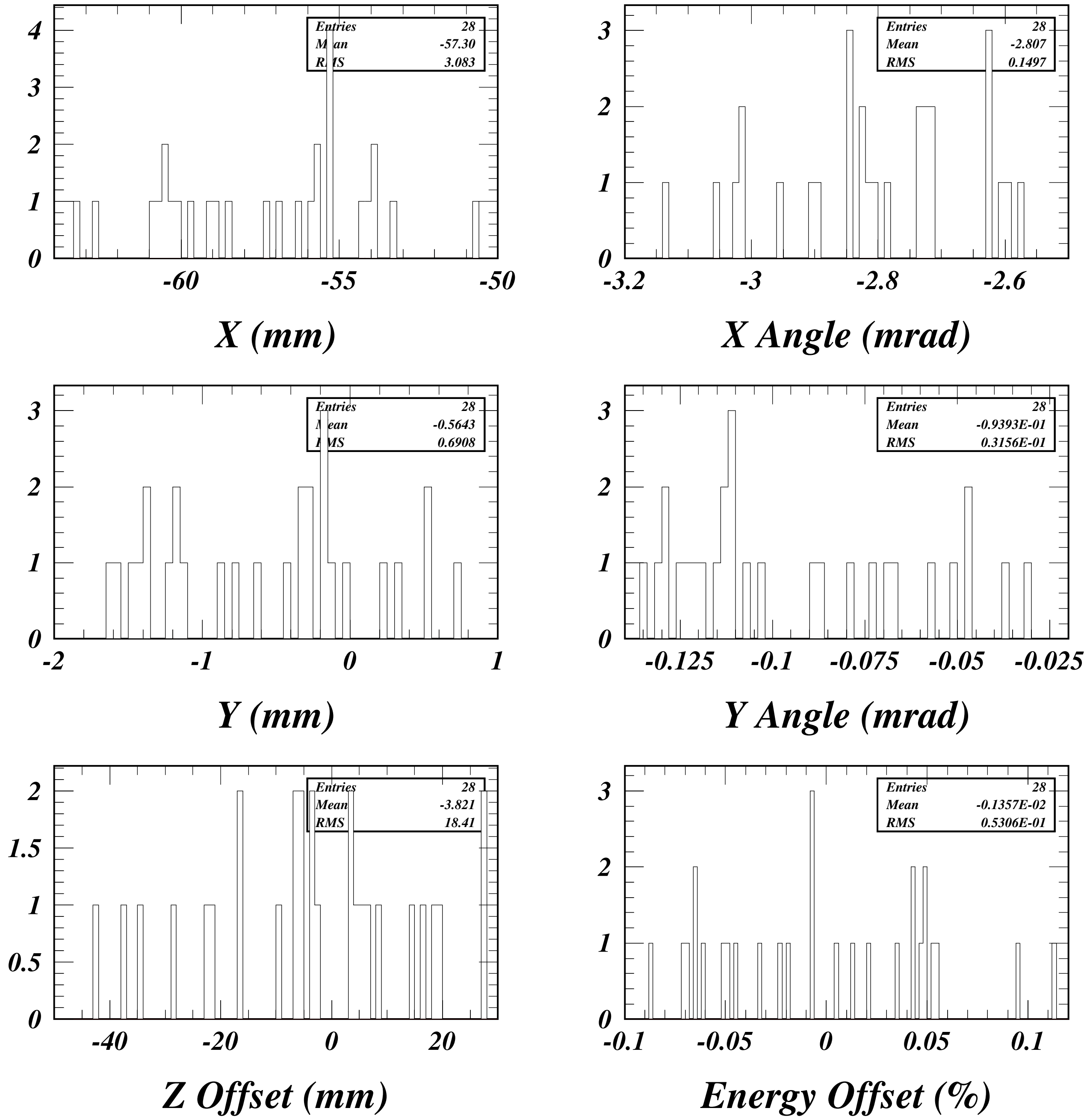
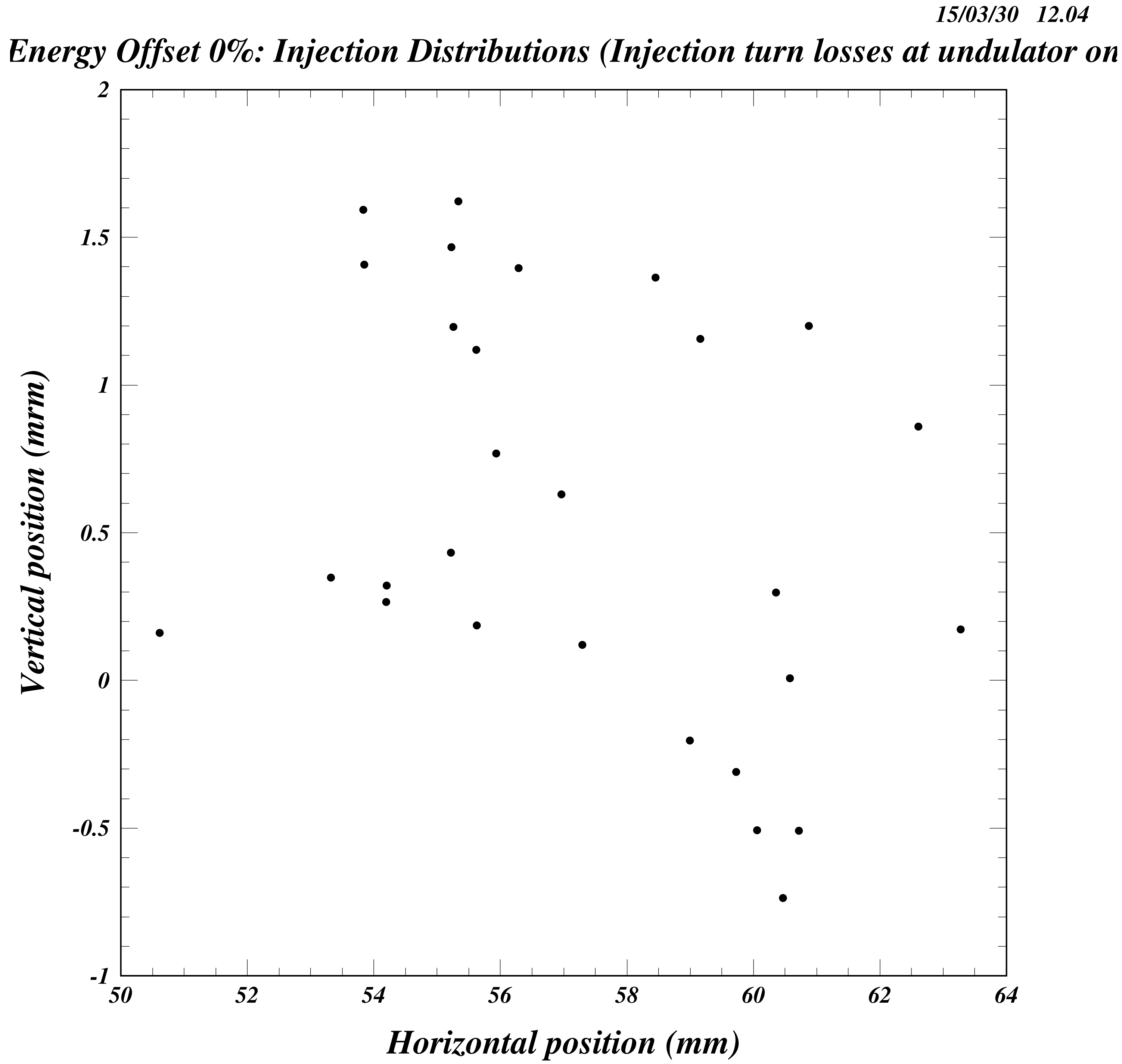
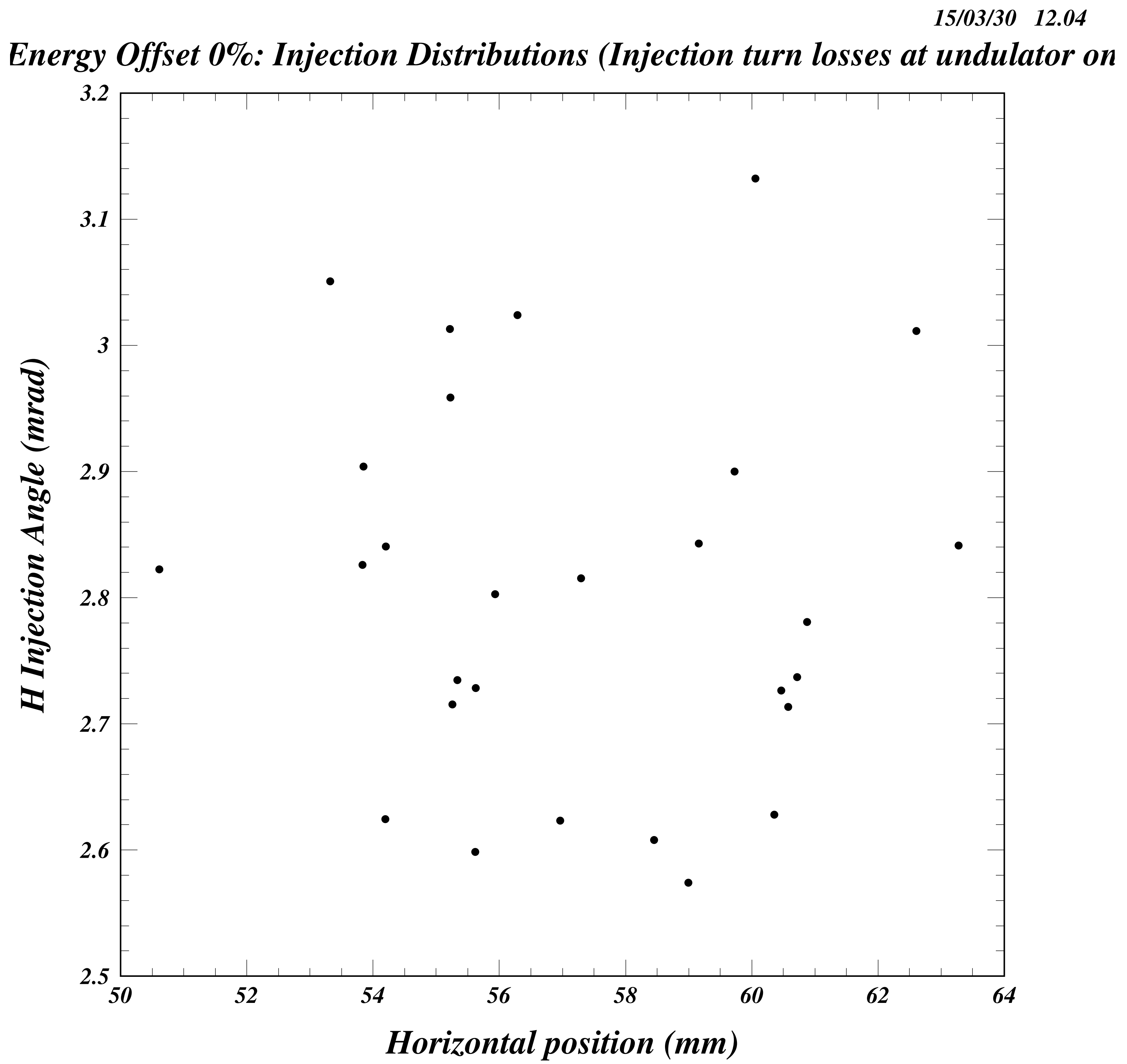
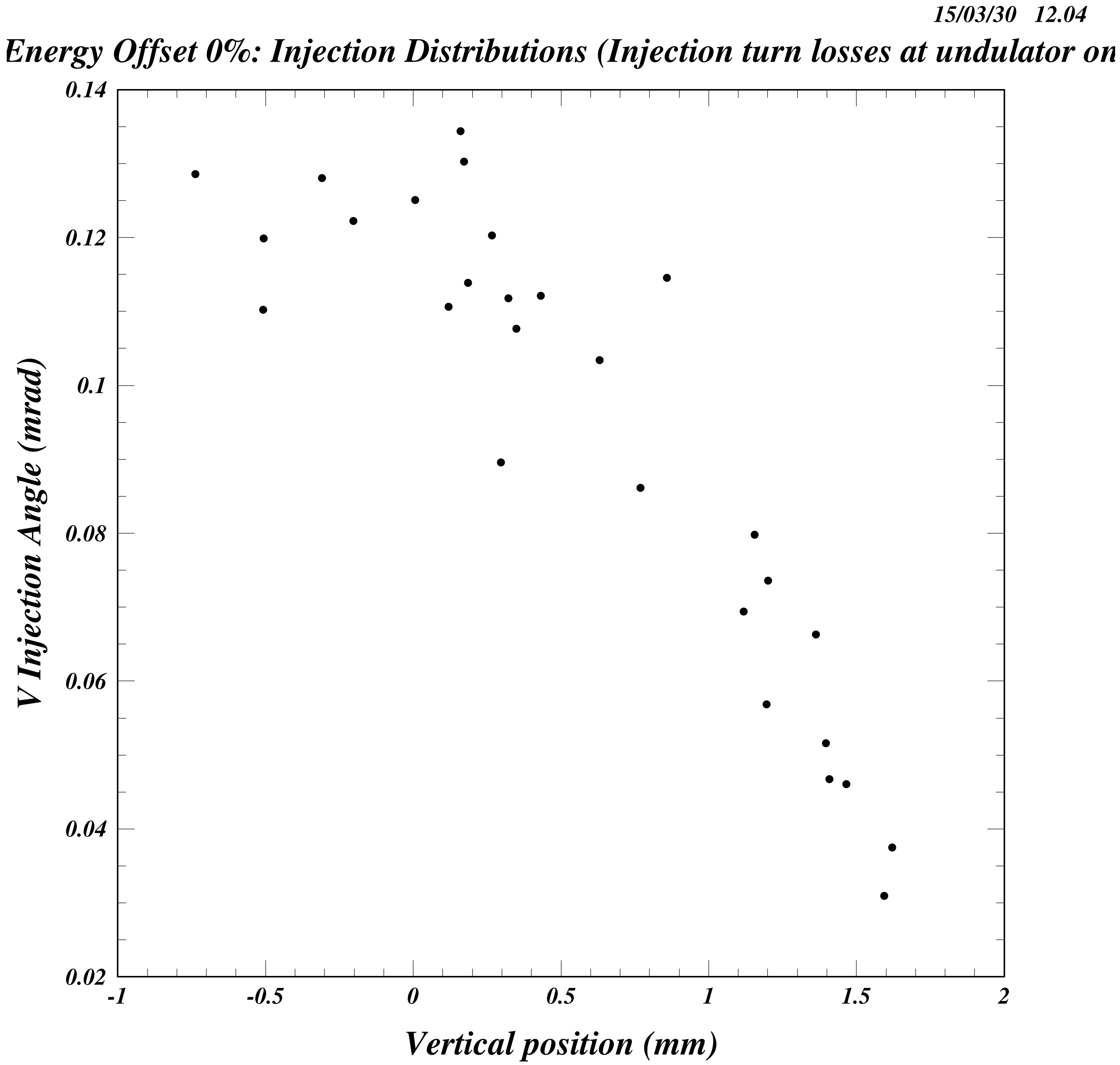
Energy Offset 0%: Injection Distributions (Injection turn losses at undulator on



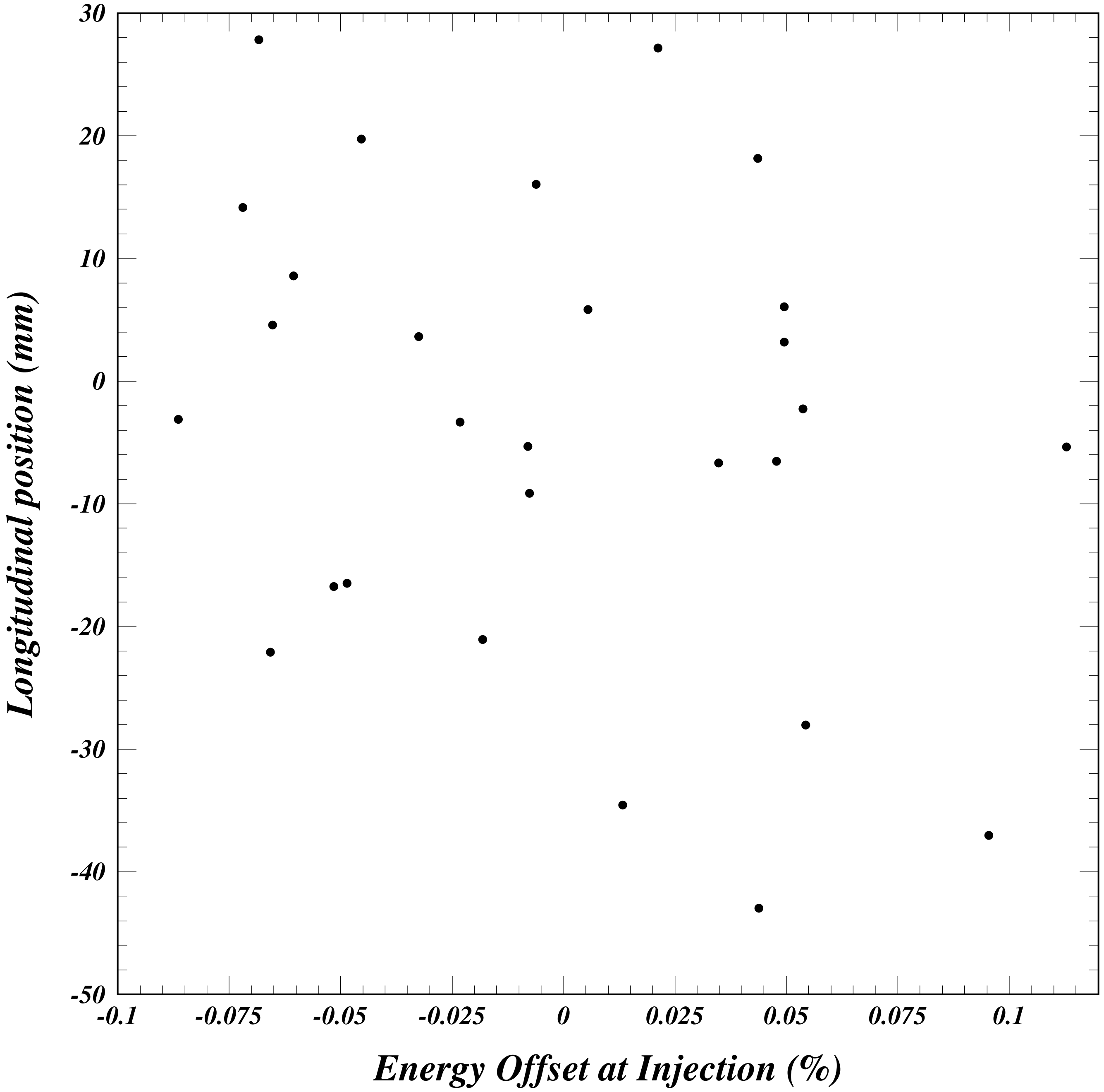

15/03/30 12.04
Energy Offset 0%: Injection Distributions (Injection turn losses at undulator on
Vertical position (mrm)
Horizontal position (mm)
2
1.5
1
0.5
0
-0.5
-1
50
52
54
56
58
60
62
64

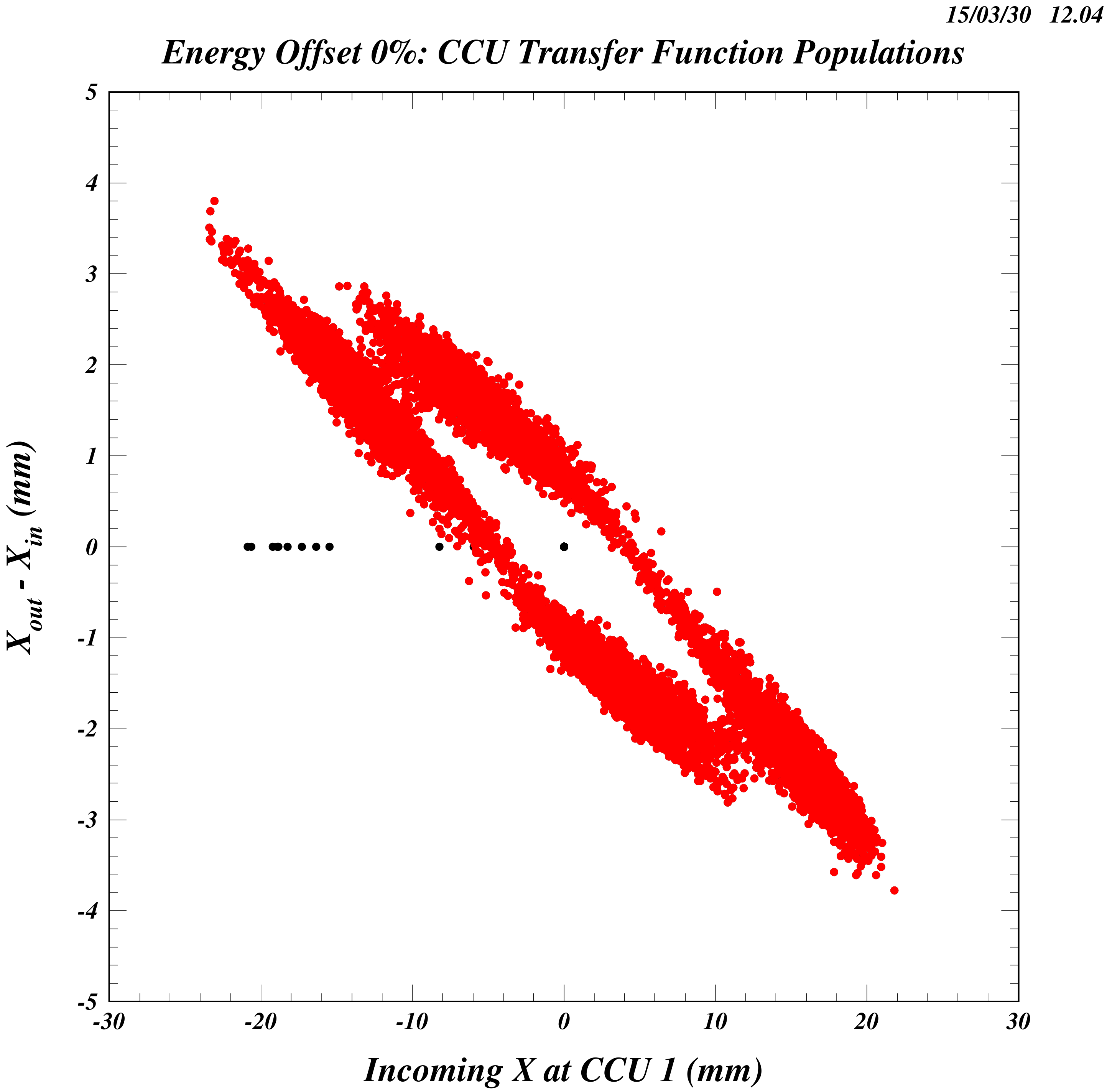

15/03/30 12.04
Energy Offset 0%: Injection Distributions (Injection turn losses at undulator on
H Injection Angle (mrad)
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
50
52
54
56
58
60
62
64
Horizontal position (mm)

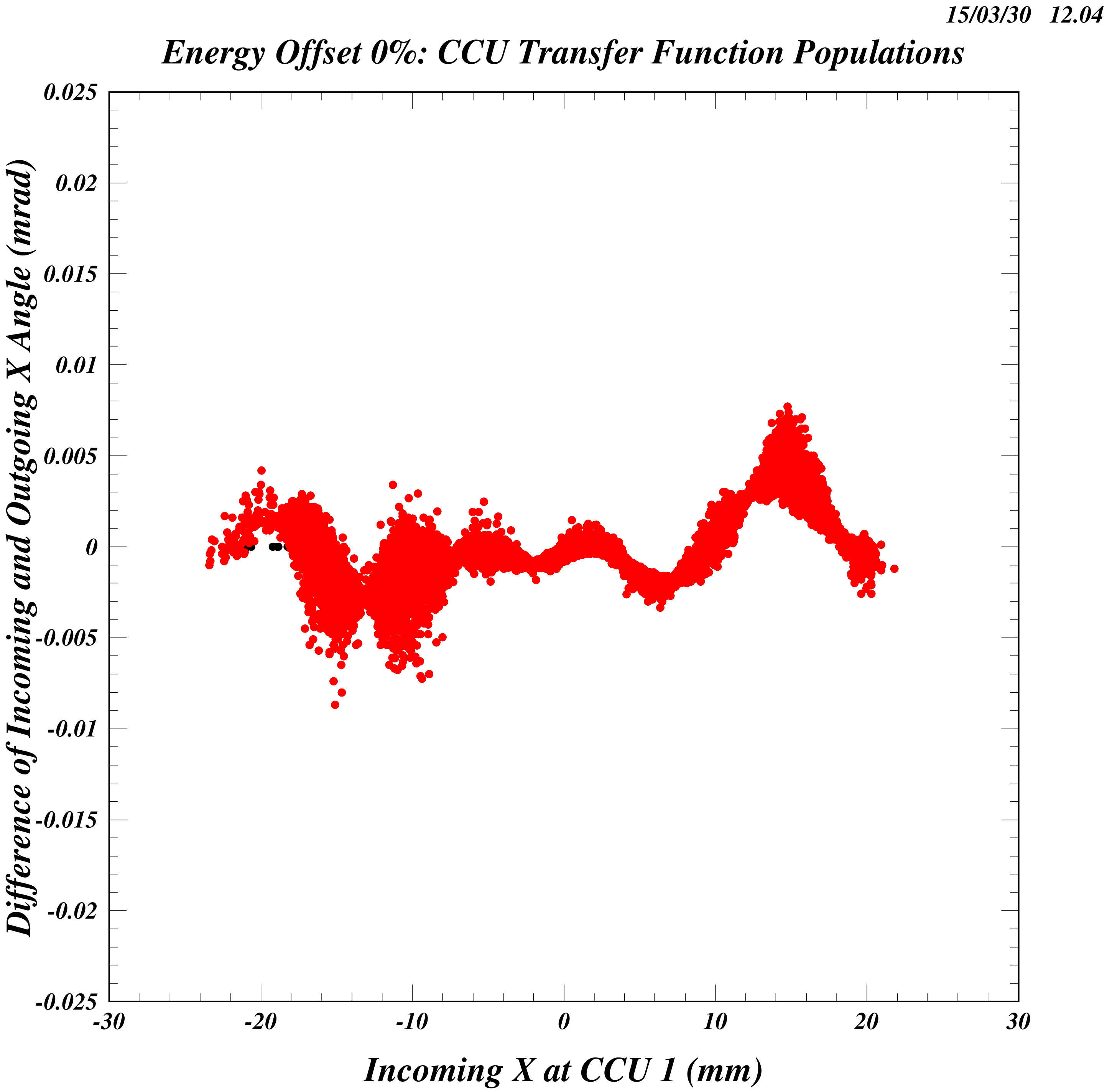

15/03/30 12.04
Energy Offset 0%: Injection Distributions (Injection turn losses at undulator on
V Injection Angle (mrad)
Vertical position (mm)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
-1
-0.5
0
0.5
1
1.5
2

15/03/30 12.04

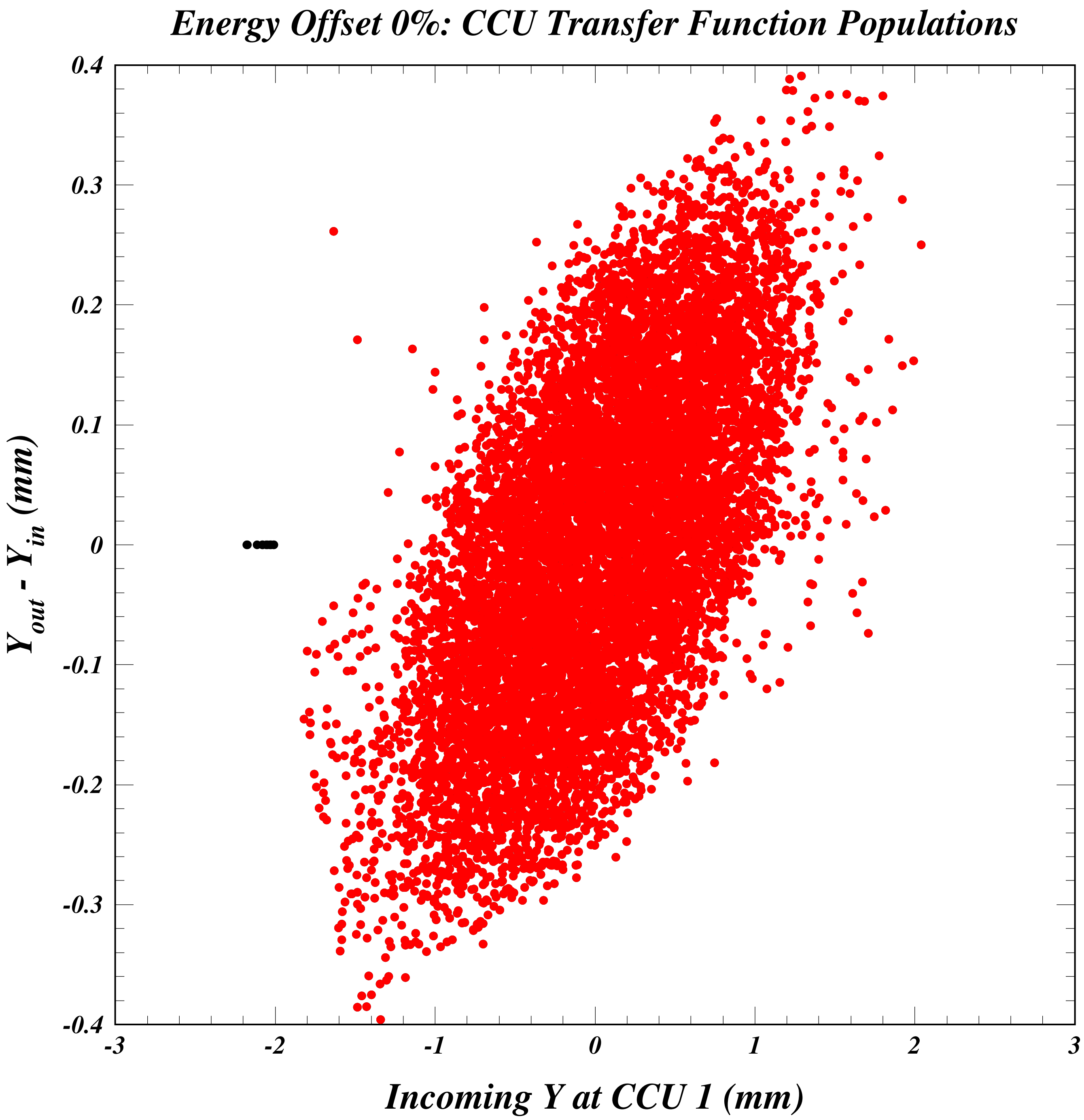
Energy Offset 0%: Injection Distributions (Injection turn losses at undulator on



15/03/30 12.04
Energy Offset 0%: 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)


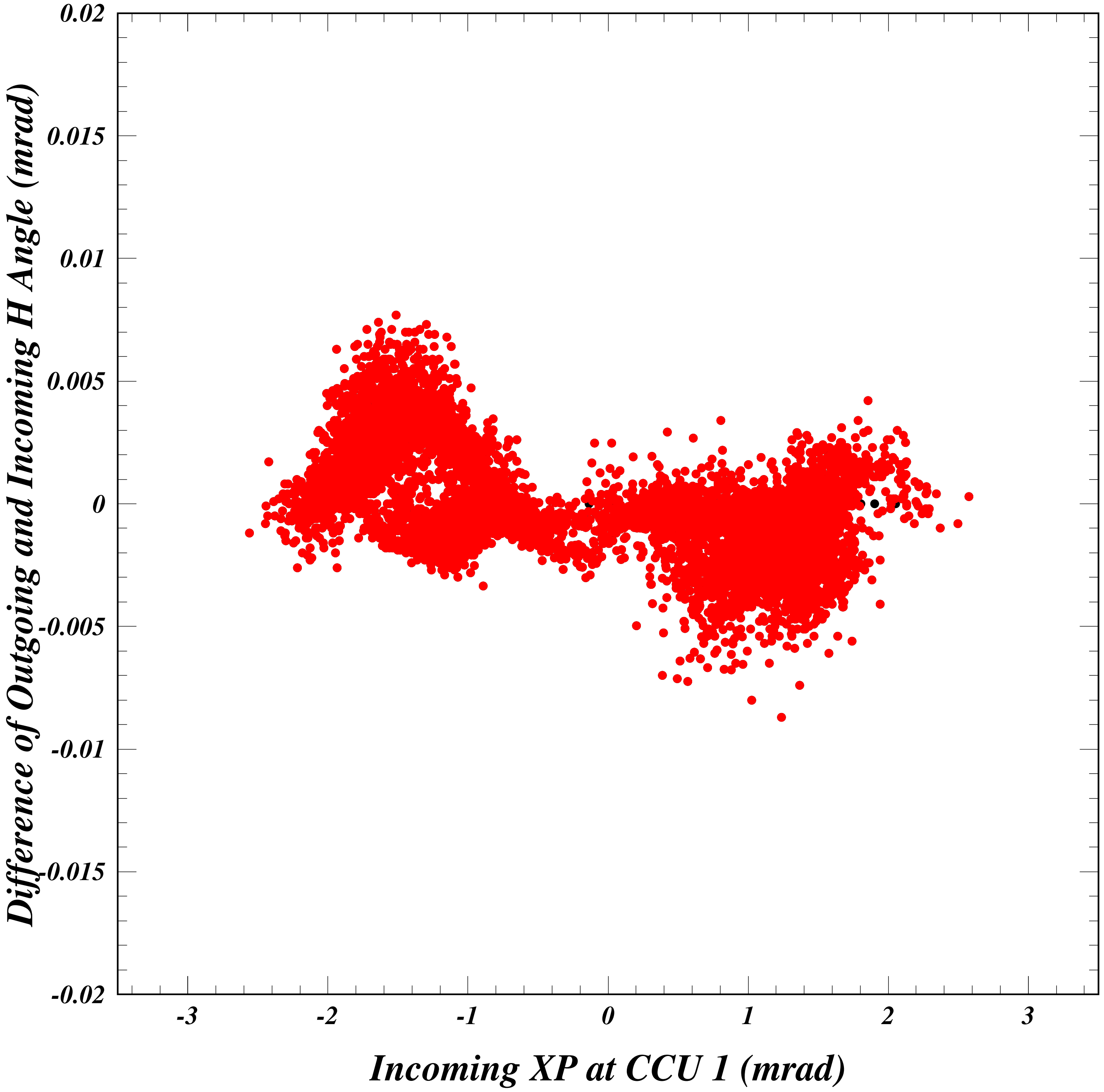

15/03/30 12.04
Energy Offset 0%: CCU Transfer Function Populations
Difference of Incoming and Outgoing X Angle (mrad)
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
-30
-20
-10
0
10
20
30
Incoming X at CCU 1 (mm)

15/03/30 12.04

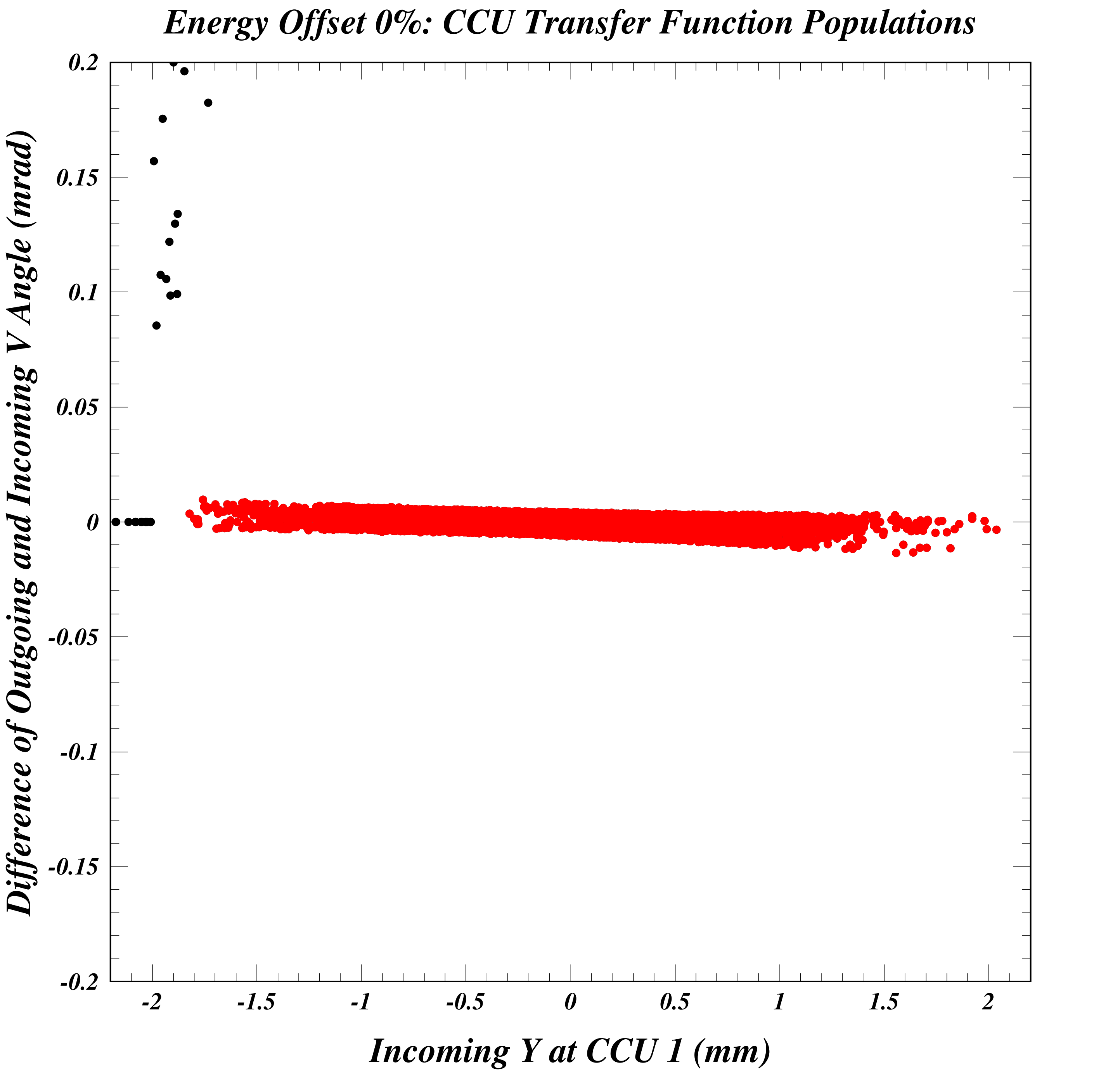

Energy Offset 0%: CCU Transfer Function Populations
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
-3
-2
-1
0
1
2
3
Y_{out} - Y_{in} (mm)
Incoming Y at CCU 1 (mm)

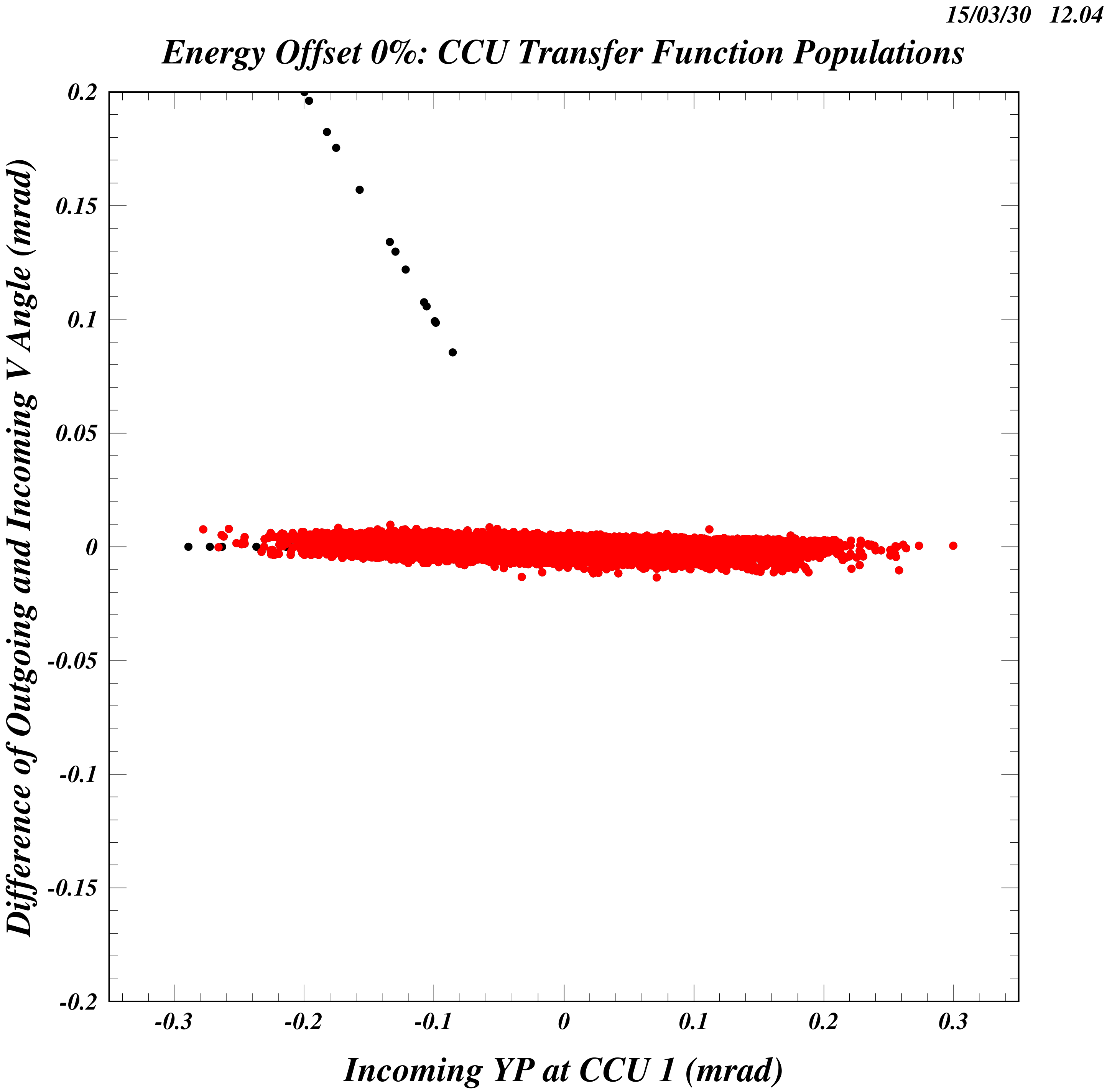
15/03/30 12.04

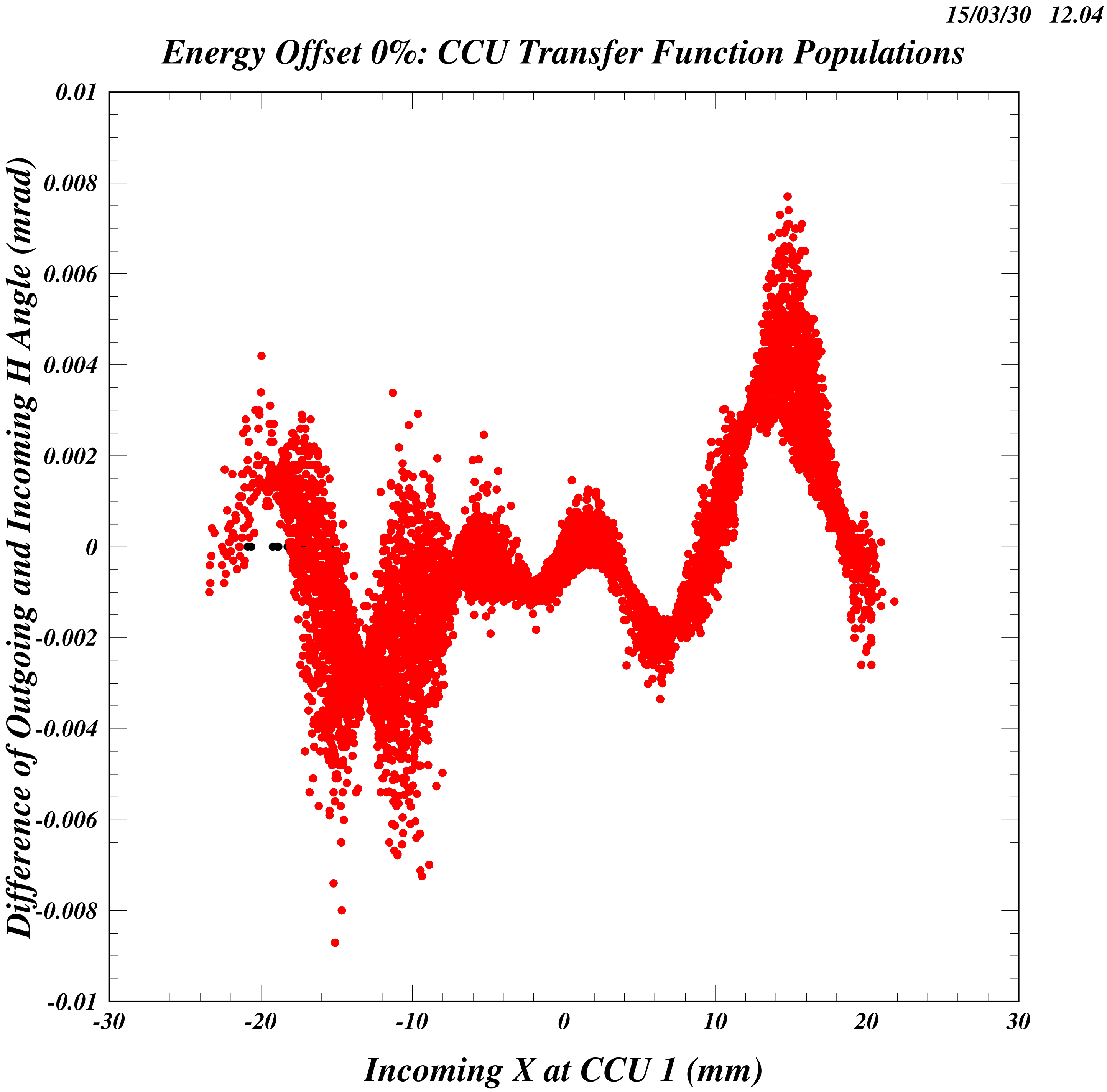
Energy Offset 0%: CCU Transfer Function Populations



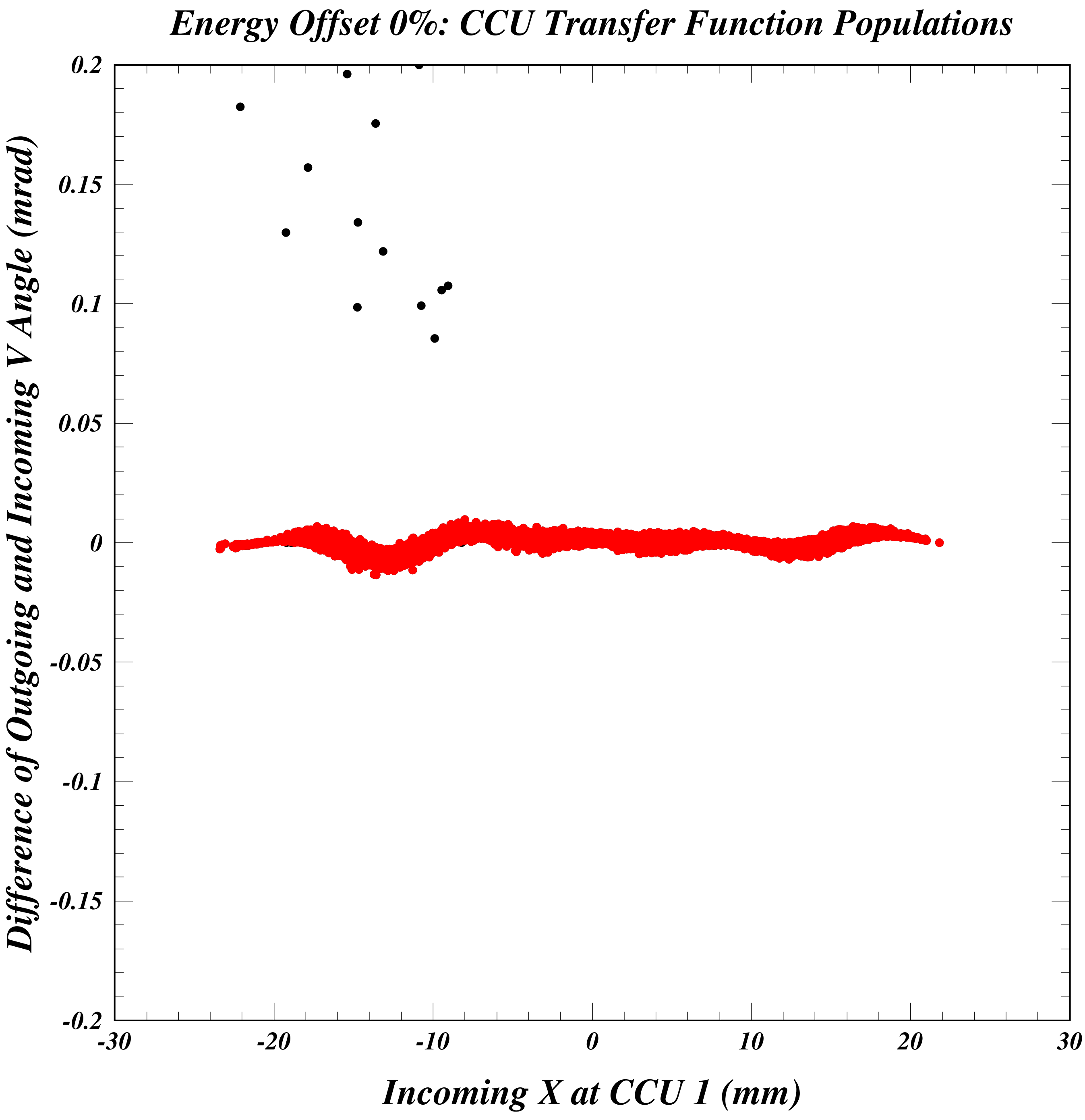
15/03/30 12.04


Energy Offset 0%: 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)

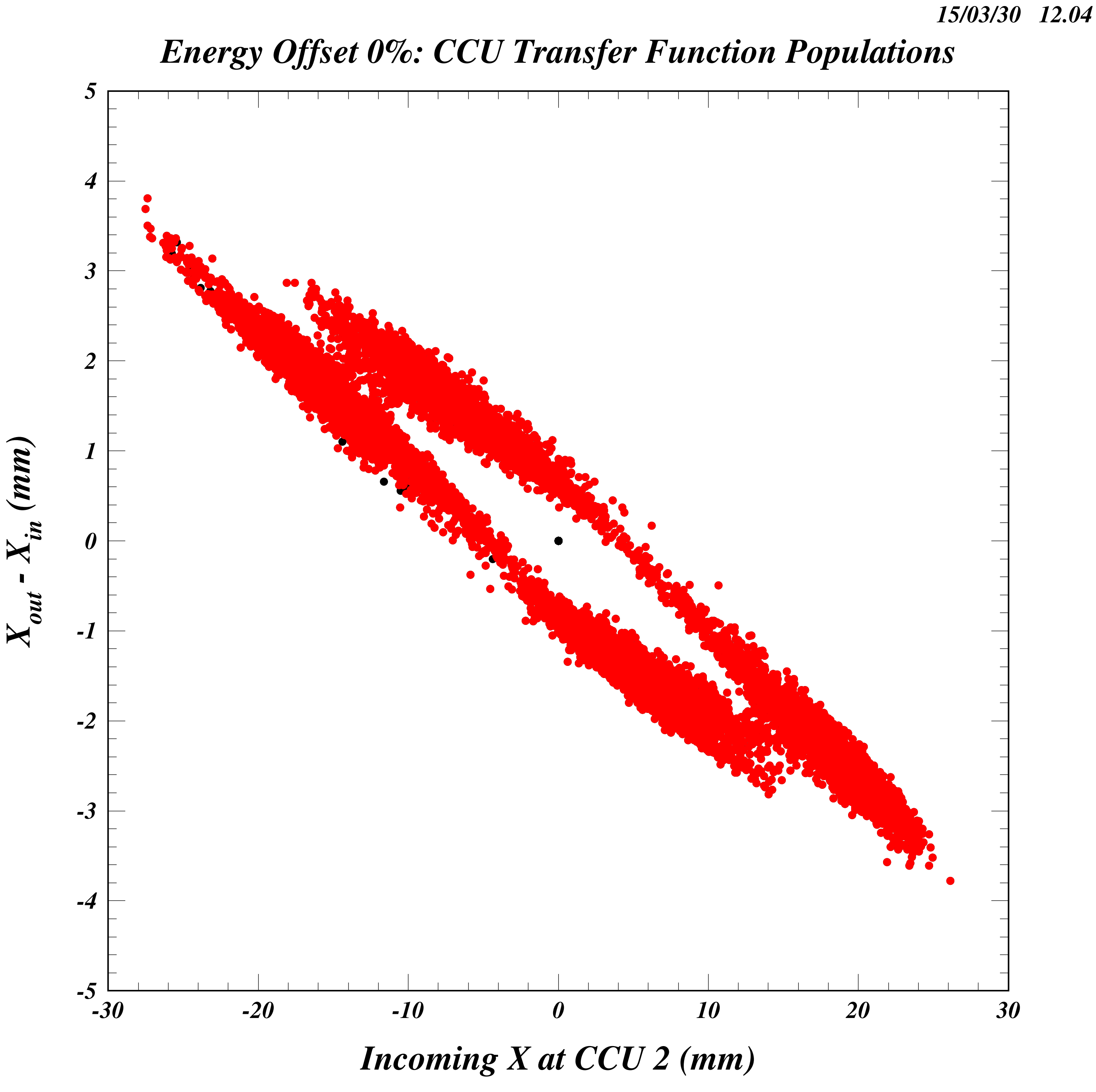

15/03/30 12.04
Energy Offset 0%: CCU Transfer Function Populations
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
Difference of Outgoing and Incoming V Angle (mrad)
-0.3
-0.2
-0.1
0
0.1
0.2
0.3
Incoming YP at CCU 1 (mrad)


15/03/30 12.04
Energy Offset 0%: 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 1 (mm)

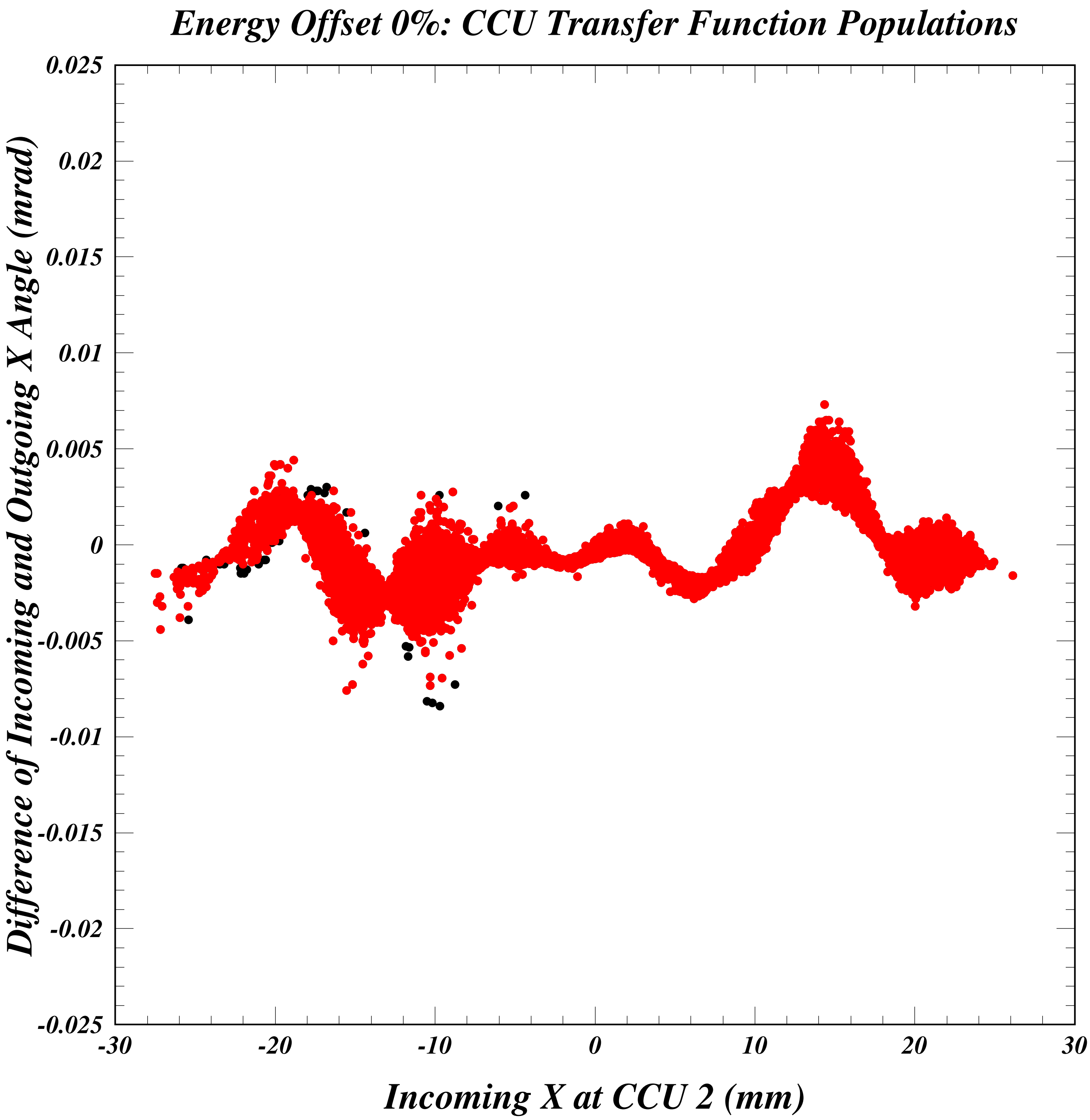
15/03/30 12.04

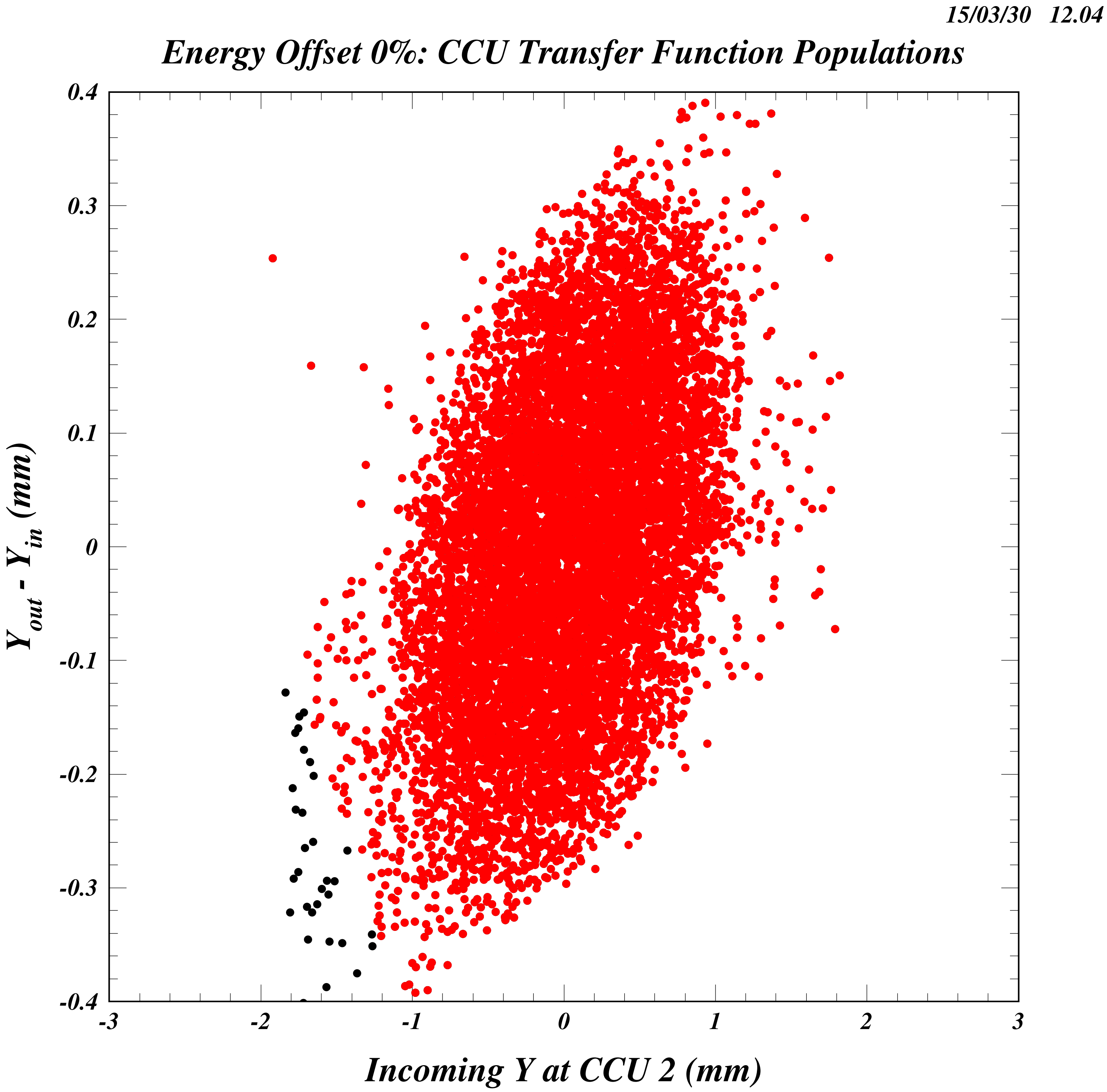


Energy Offset 0%: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-30
-20
-10
0
10
20
30
Incoming X at CCU 1 (mm)

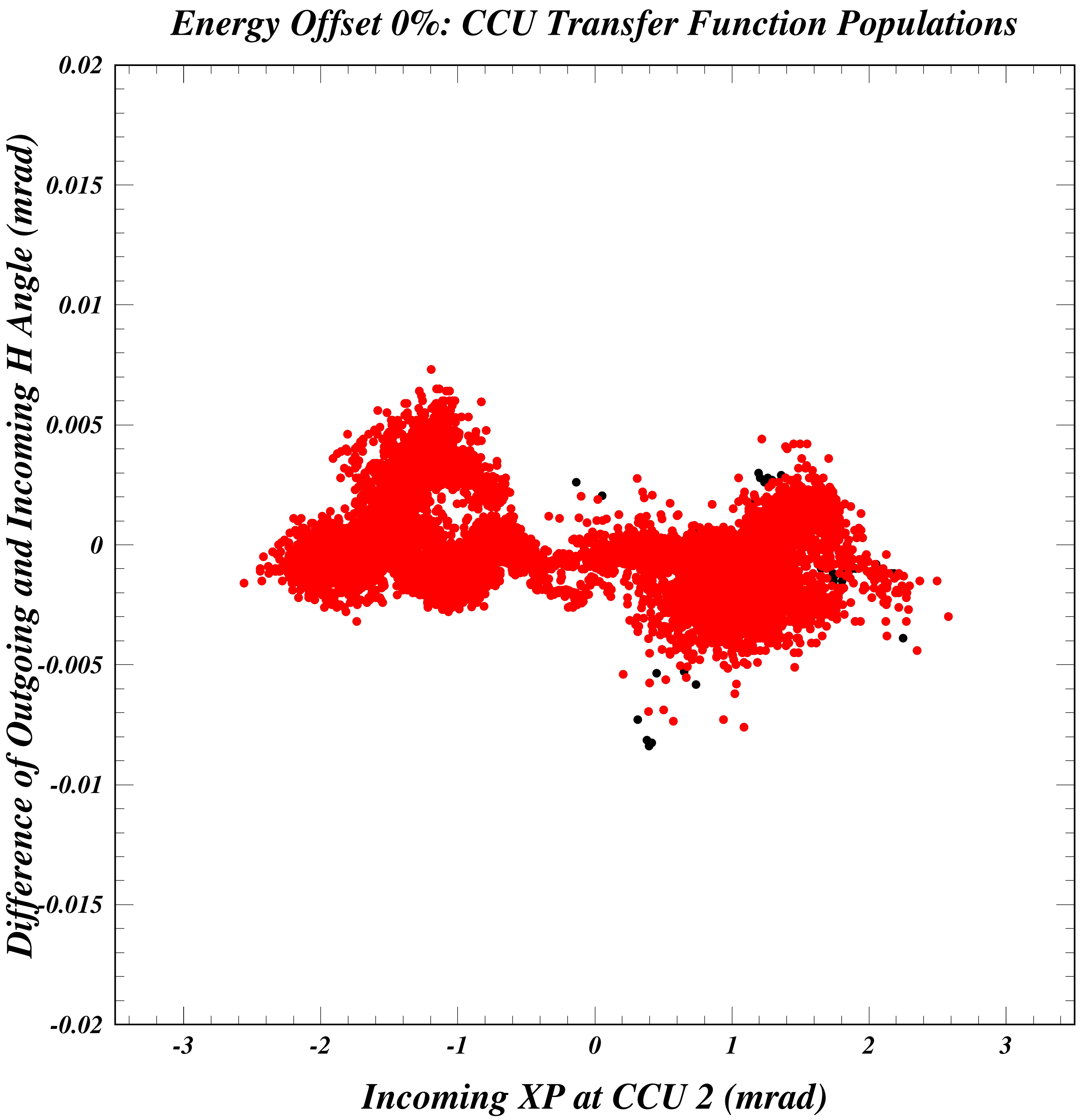

15/03/30 12.04
Energy Offset 0%: CCU Transfer Function Populations
5
4
3
2
1
0
-1
-2
-3
-4
-5
-30
-20
-10
0
10
20
30
Xout - Xin (mm)
Incoming X at CCU 2 (mm)

15/03/30 12.04


Energy Offset 0%: 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
-30
-20
-10
0
10
20
30
Difference of Incoming and Outgoing X Angle (mrad)
Incoming X at CCU 2 (mm)


15/03/30 12.04
Energy Offset 0%: 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

15/03/30 12.04


Energy Offset 0%: 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)

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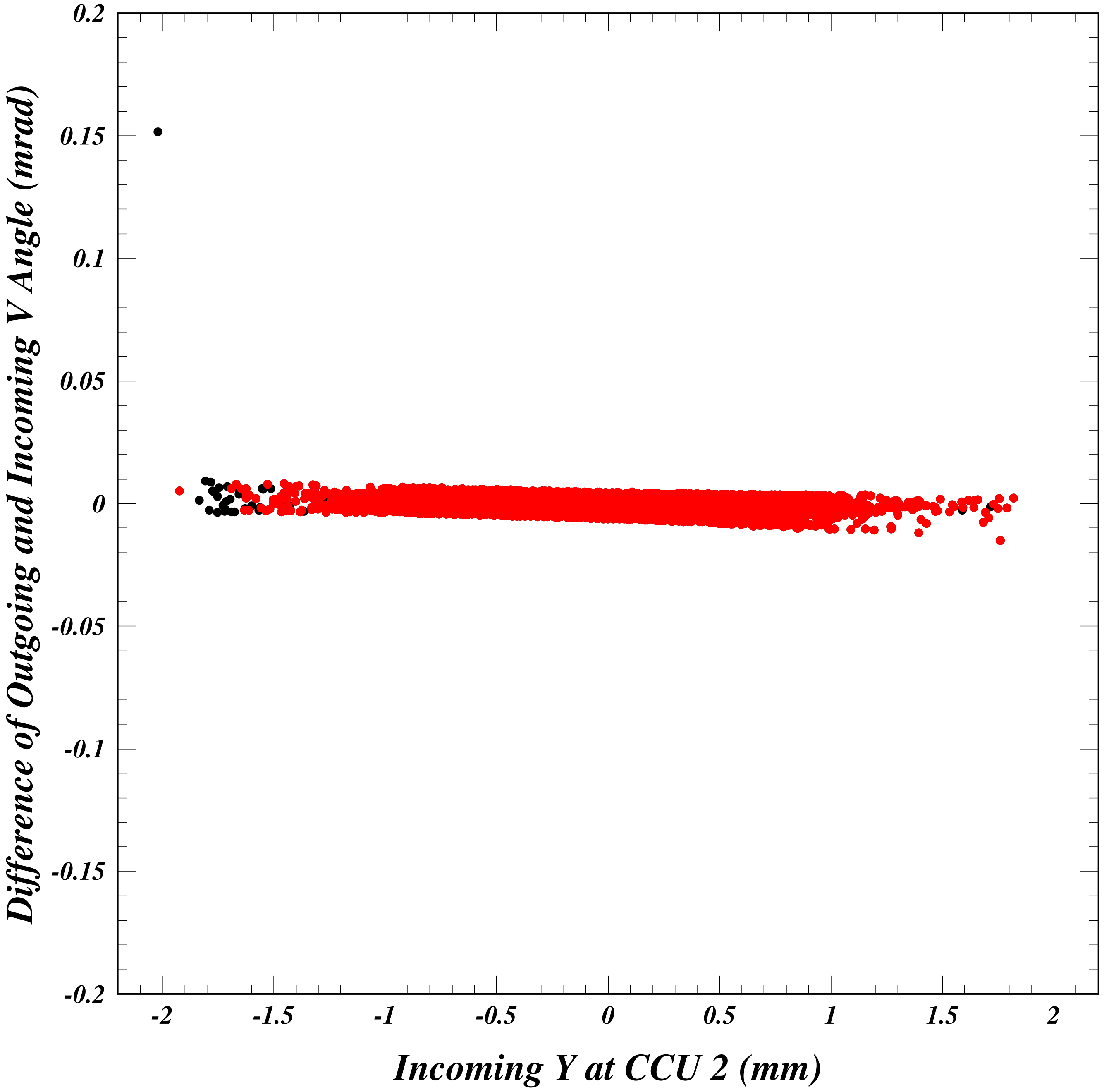
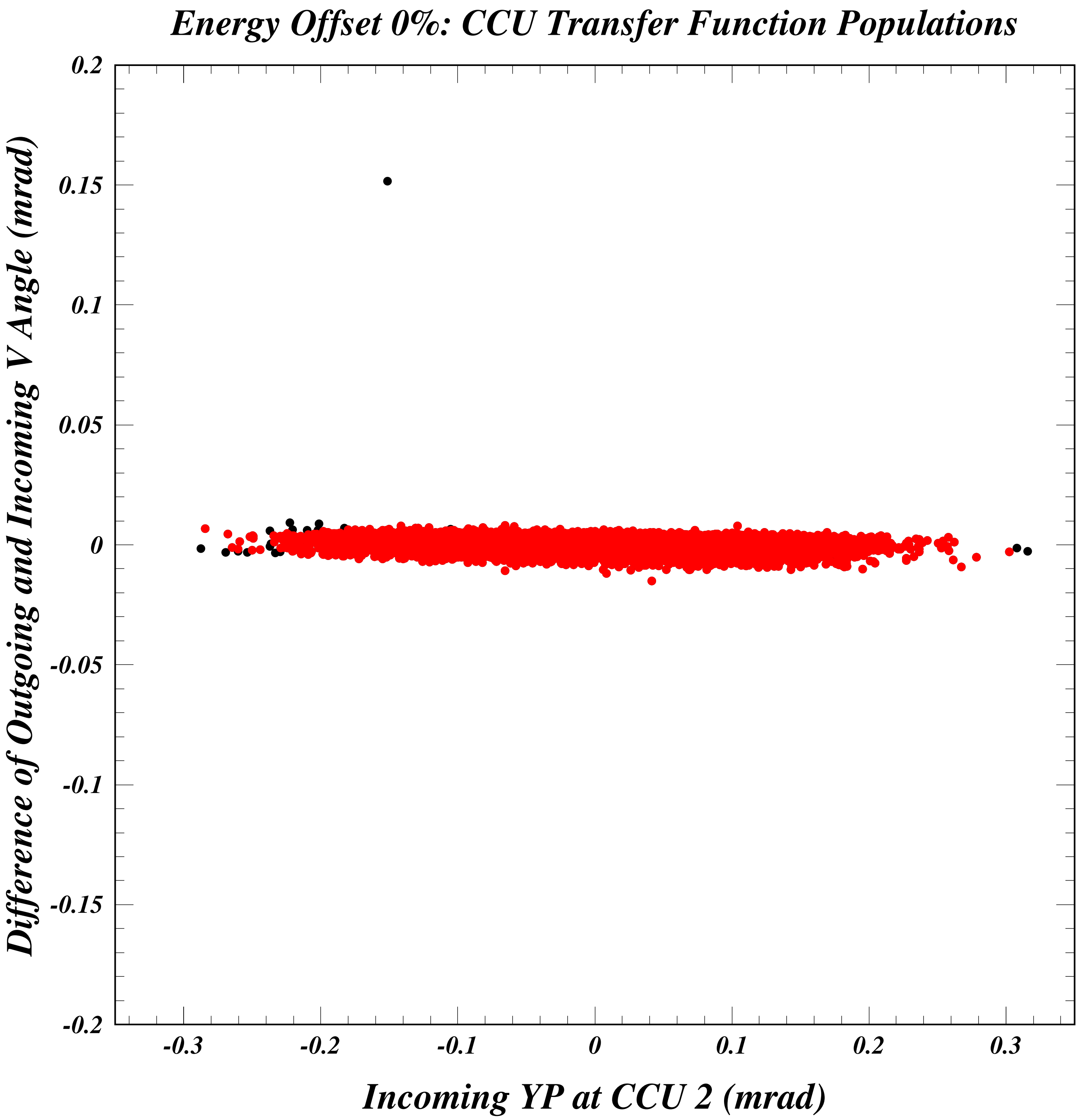
Energy Offset 0%: CCU Transfer Function Populations



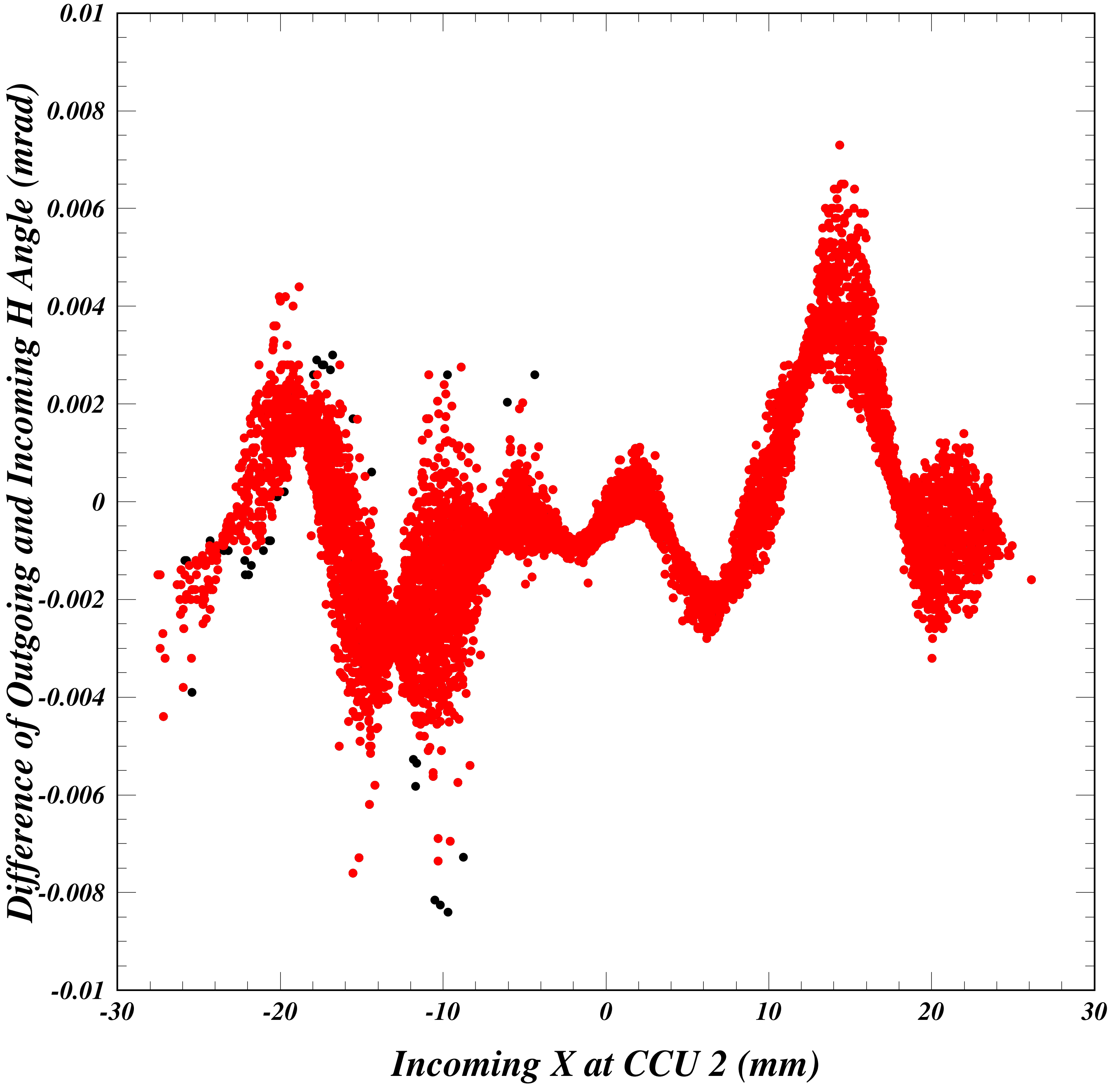
15/03/30 12.04

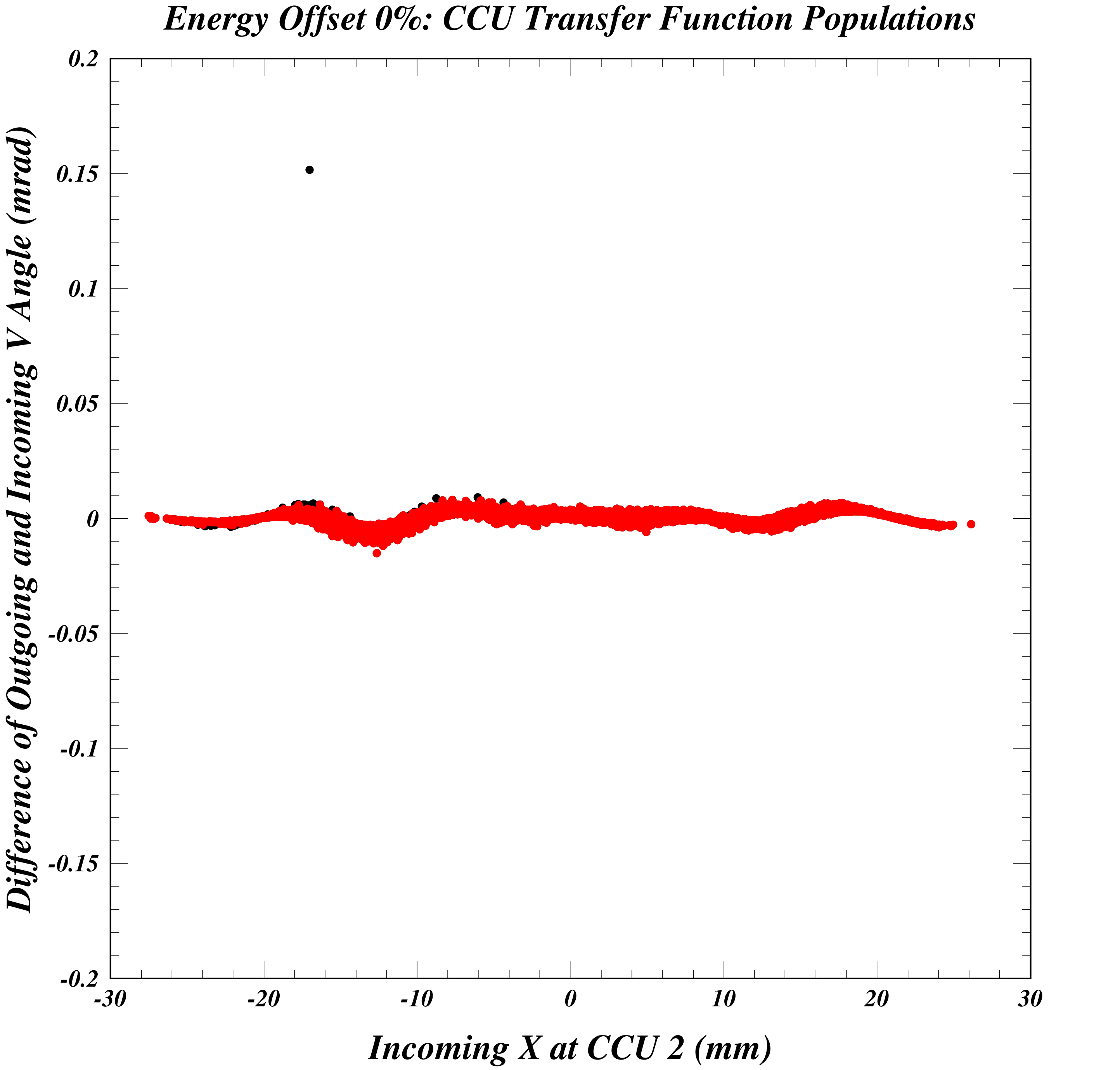


Energy Offset 0%: CCU Transfer Function Populations
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.3
-0.2
-0.1
0
0.1
0.2
0.3
Difference of Outgoing and Incoming V Angle (mrad)
Incoming YP at CCU 2 (mrad)

15/03/30 12.04

Energy Offset 0%: CCU Transfer Function Populations





Energy Offset 0%: 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