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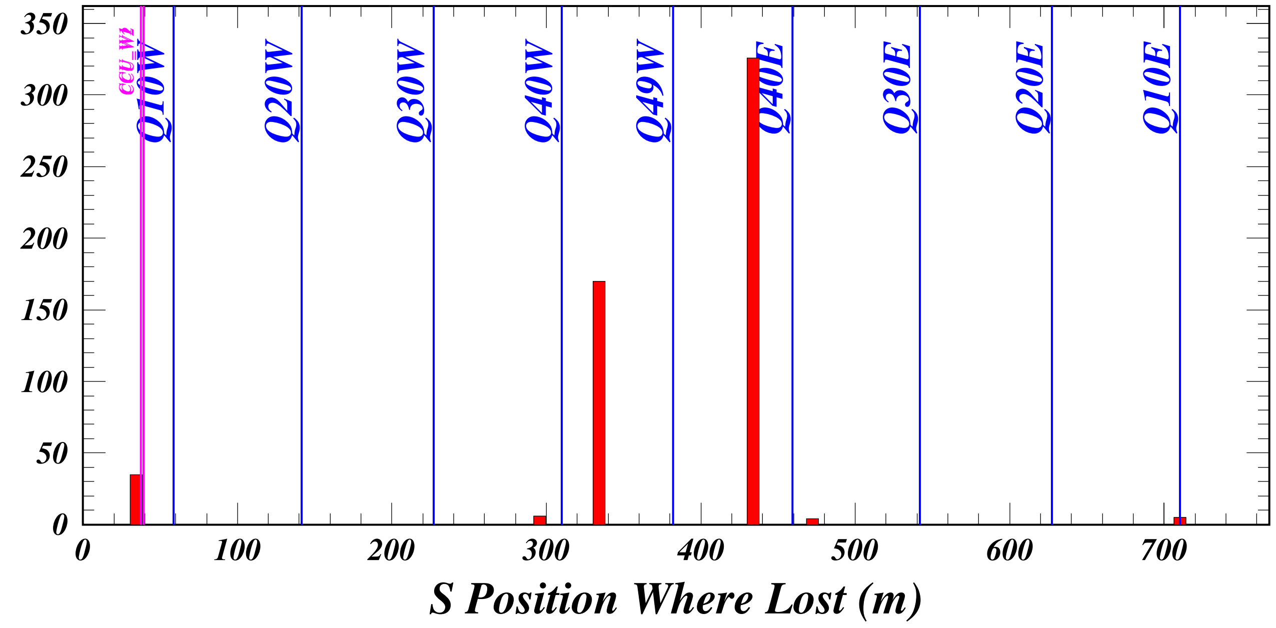
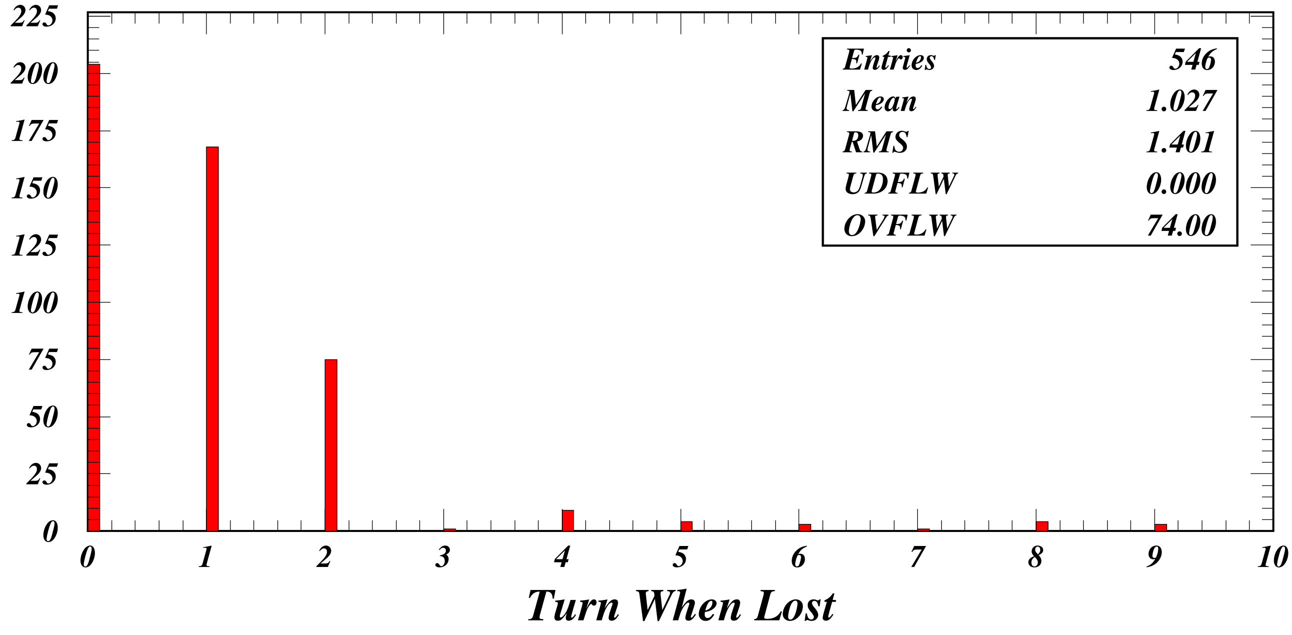
Energy Offset 0%





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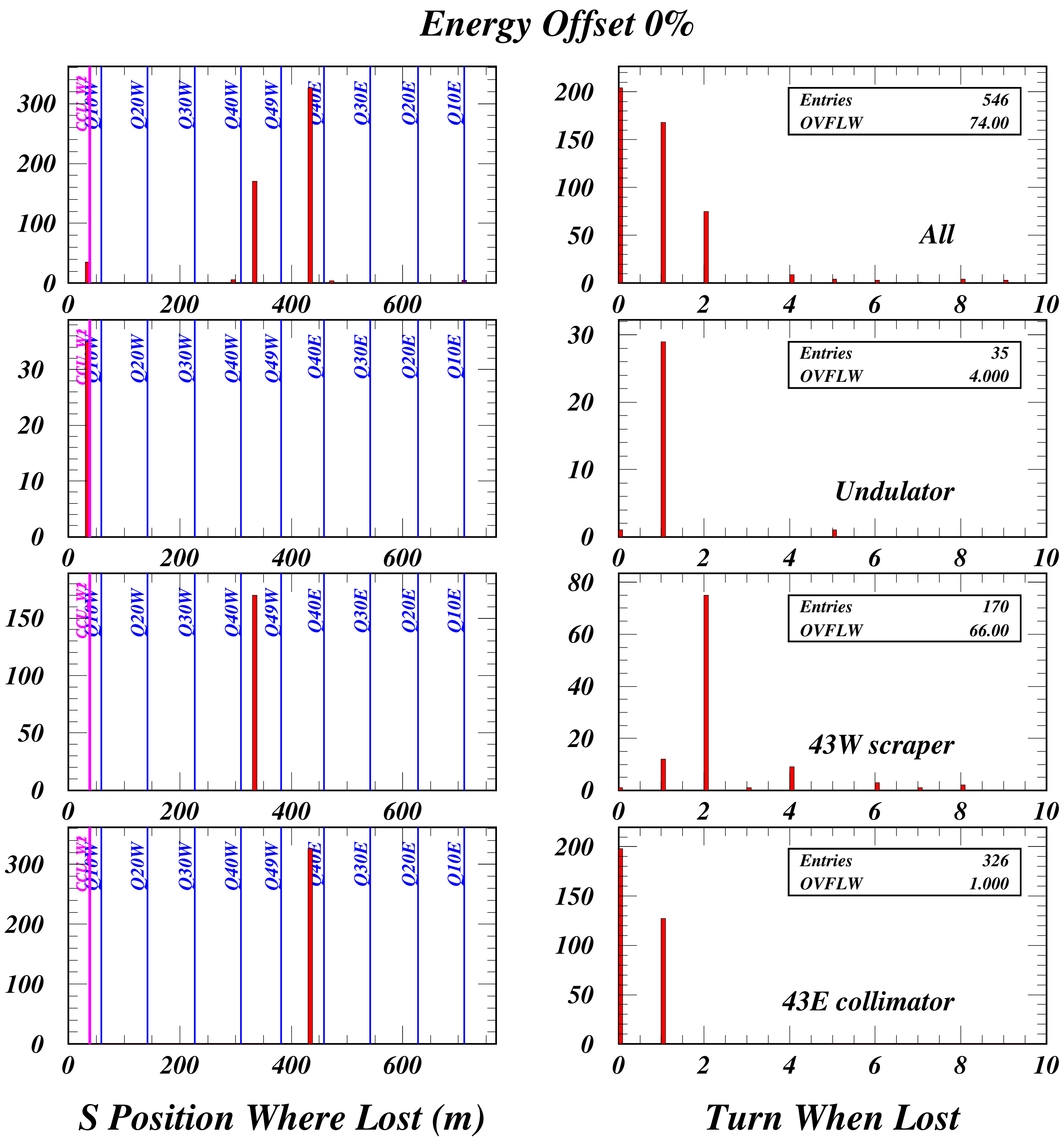
Energy Offset 0%
Entries 546
OVFLW 74.00
All
Entries 35
OVFLW 4.000
Undulator
Entries 170
OVFLW 66.00
43W scraper
Entries 326
OVFLW 1.000
43E collimator
CCL W2
Q10W
Q20W
Q30W
Q40W
Q49W
Q40E
Q30E
Q20E
Q10E
S Position Where Lost (m)
Turn When Lost

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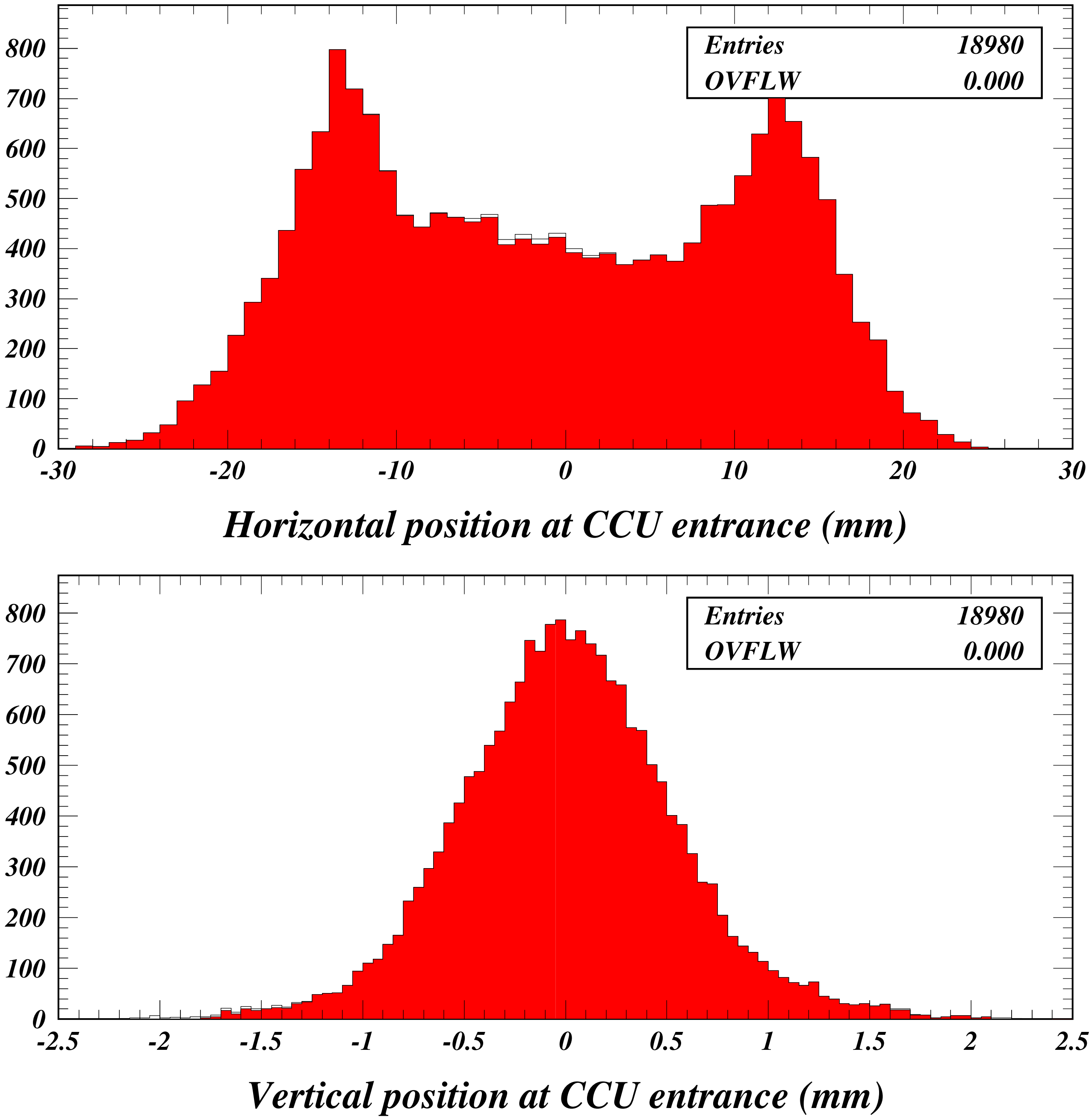
Energy Offset 0%: CCU Entrance X and Y (red = survived turn)



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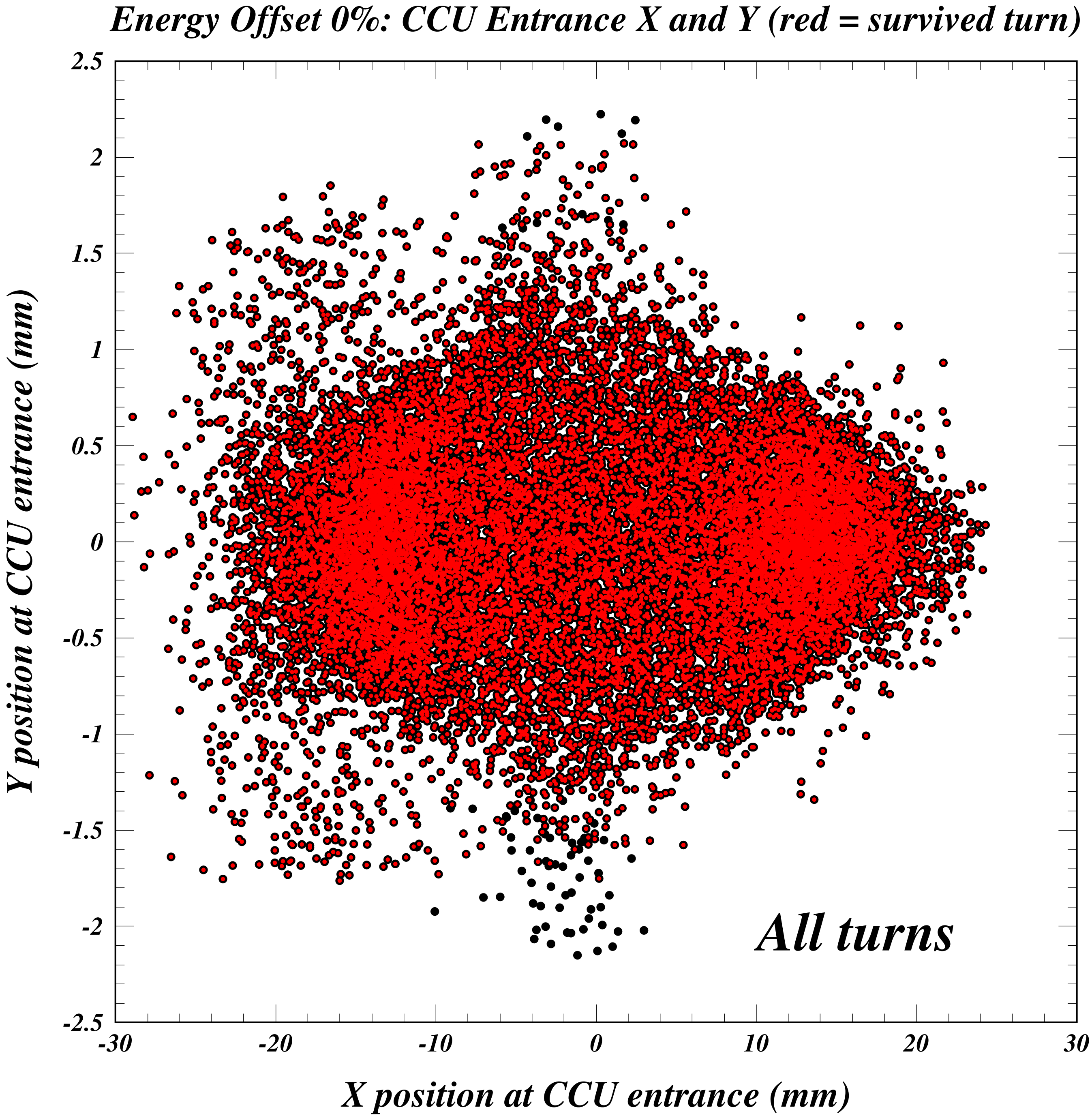
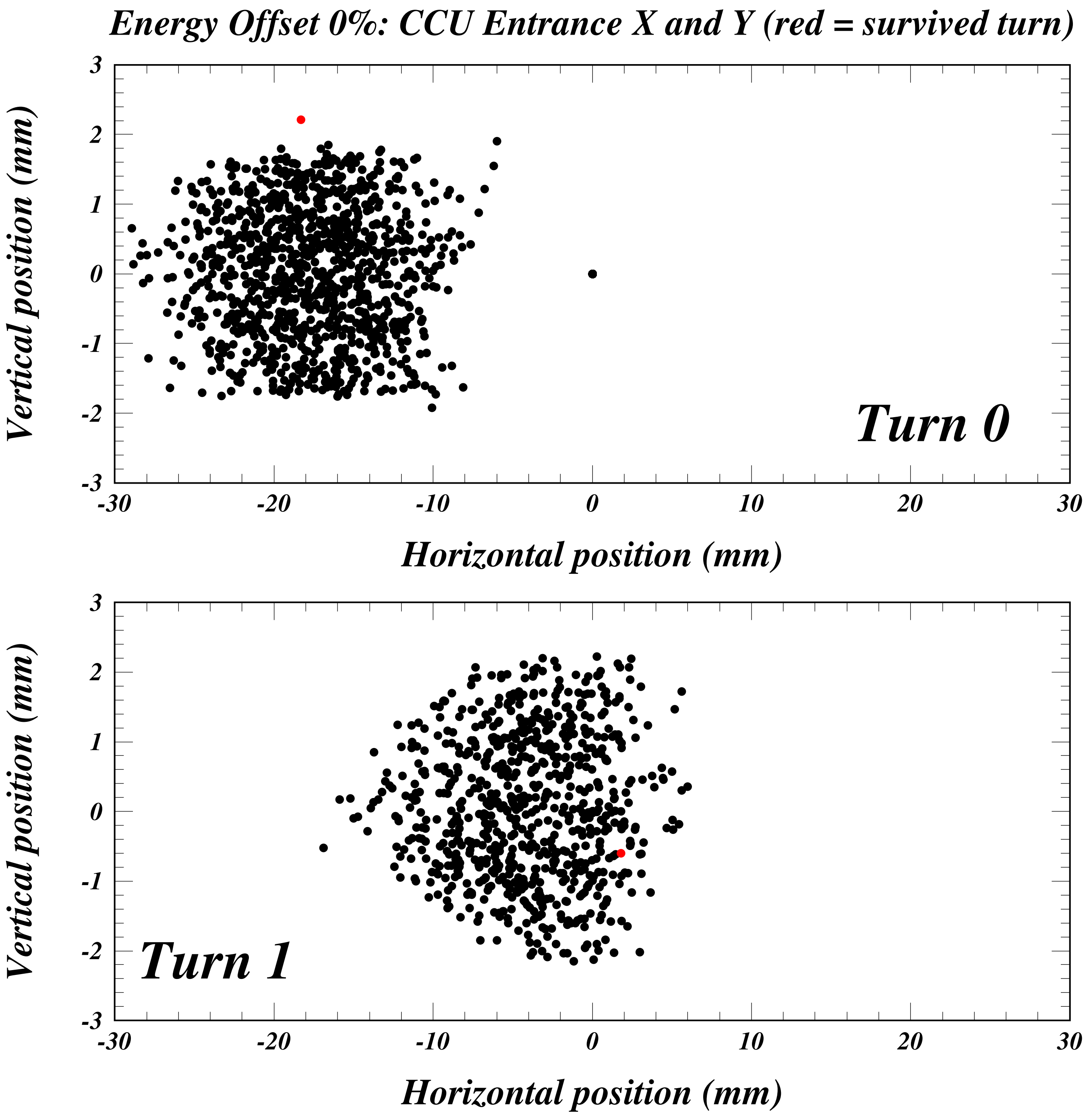


Energy Offset 0%: CCU Entrance X and Y (red = survived turn)
Y position at CCU entrance (mm)
X position at CCU entrance (mm)
All turns
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-30
-20
-10
0
10
20
30


Energy Offset 0%: CCU Entrance X and Y (red = survived turn)
Vertical position (mm)
3
2
1
0
-1
-2
-3
-30
-20
-10
0
10
20
30
Horizontal position (mm)
Turn 0
Vertical position (mm)
3
2
1
0
-1
-2
-3
-30
-20
-10
0
10
20
30
Horizontal position (mm)
Turn 1

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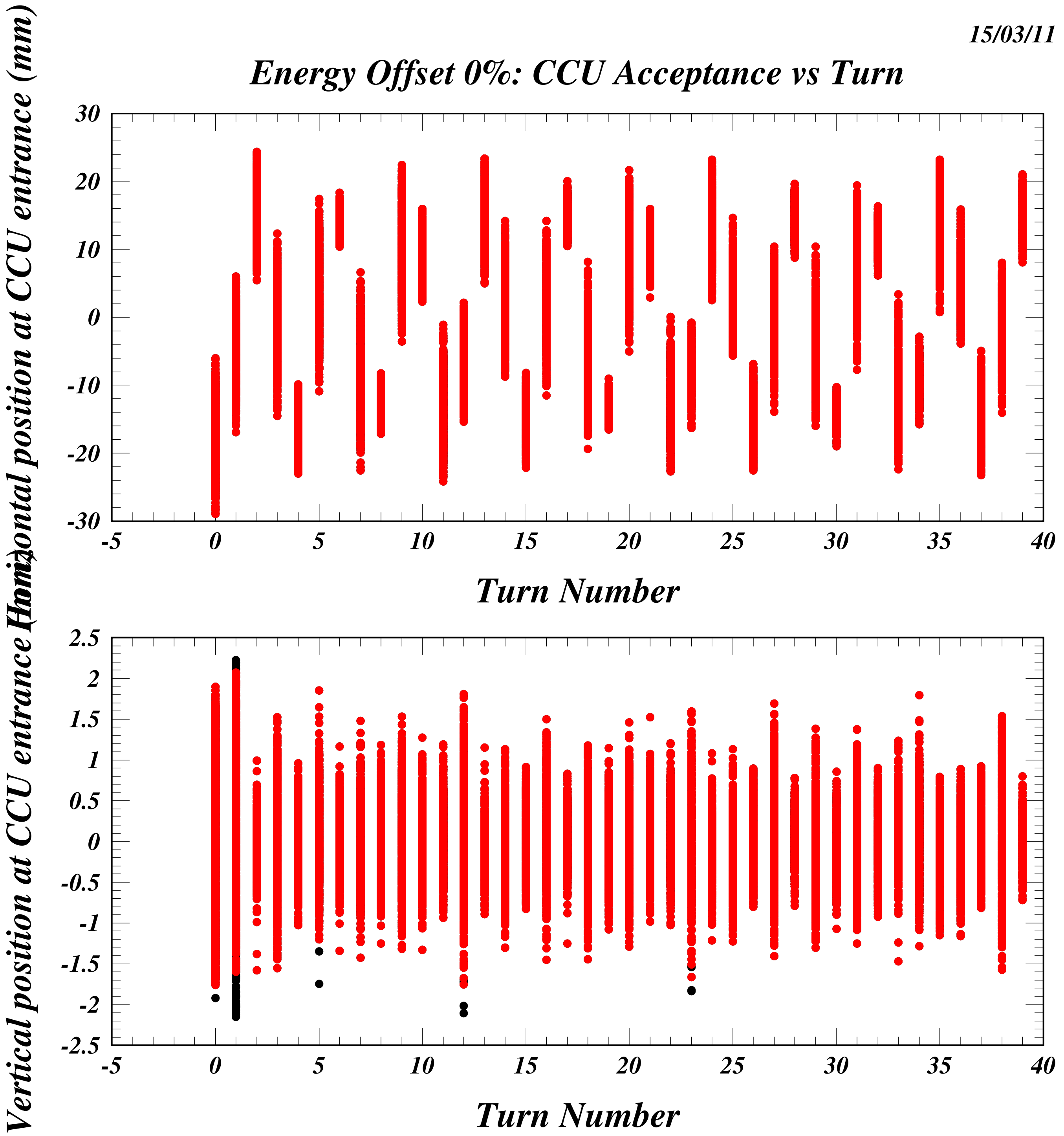
Energy Offset 0%: CCU Acceptance vs Turn



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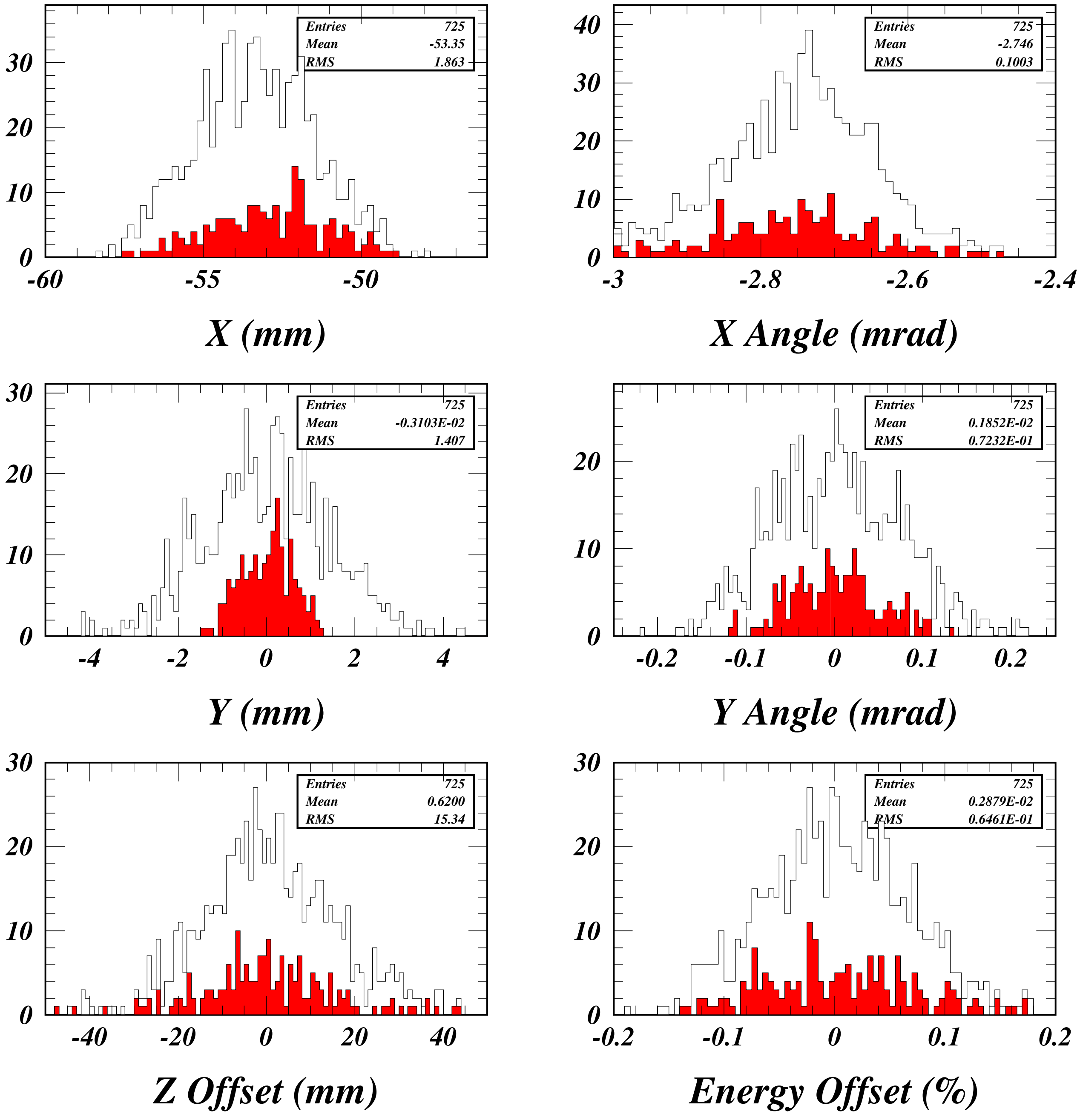
Energy Offset 0%: Injection Distributions



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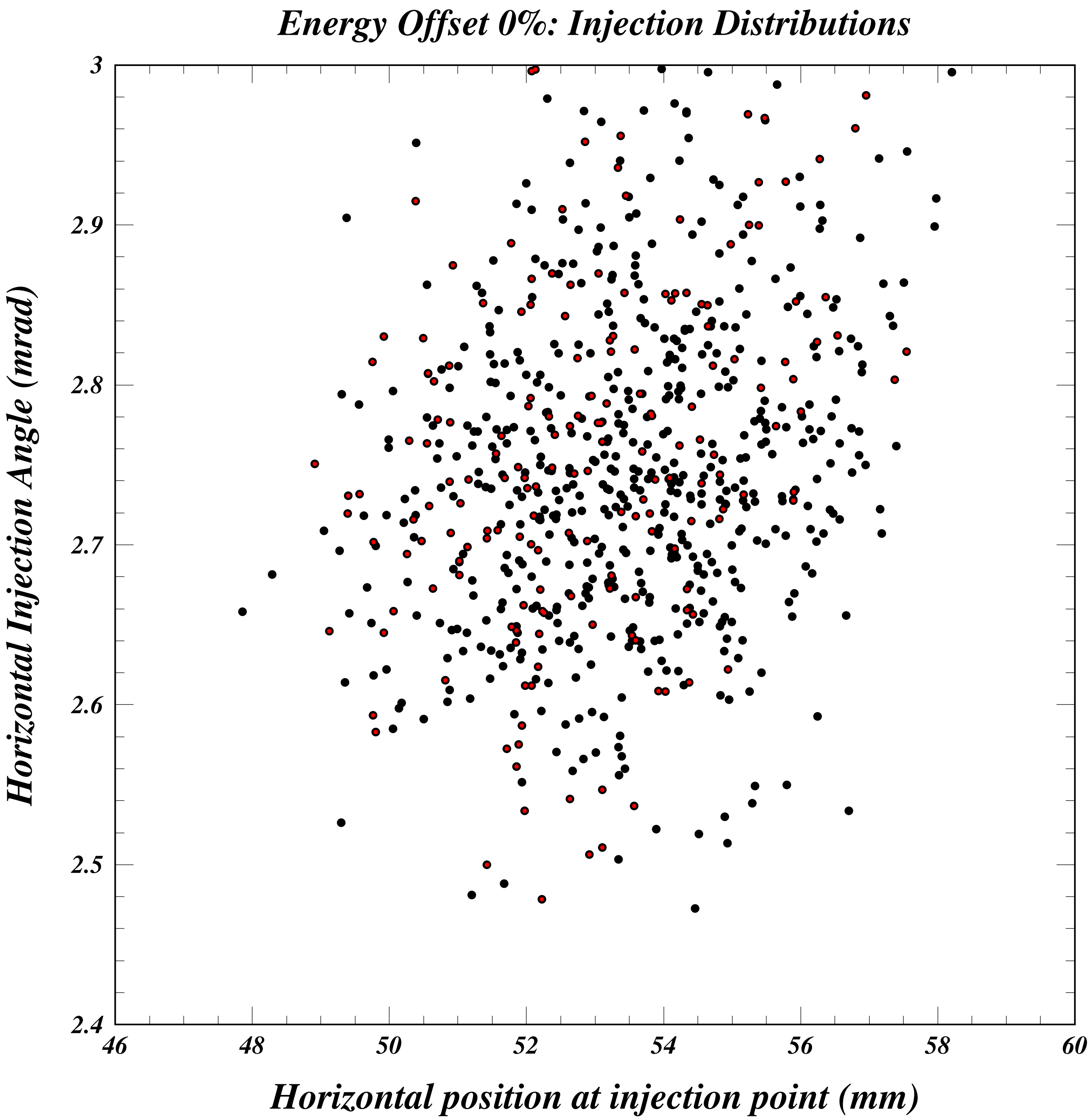
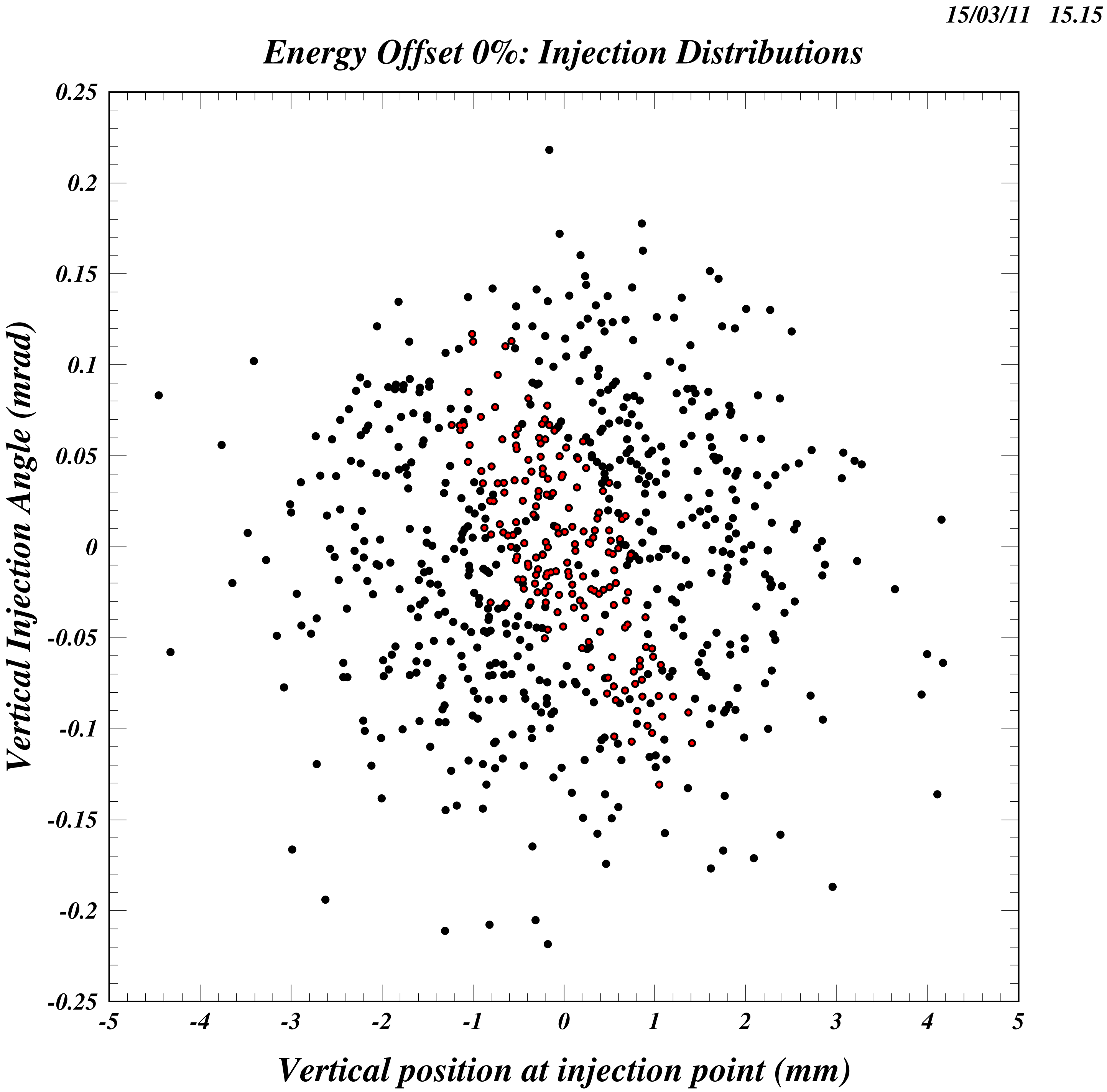


Energy Offset 0%: Injection Distributions
Horizontal Injection Angle (mrad)
Horizontal position at injection point (mm)
3
2.9
2.8
2.7
2.6
2.5
2.4
46
48
50
52
54
56
58
60


15/03/11 15.15
Energy Offset 0%: Injection Distributions
0.25
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.25
Vertical Injection Angle (mrad)
-5
-4
-3
-2
-1
0
1
2
3
4
5
Vertical position at injection point (mm)

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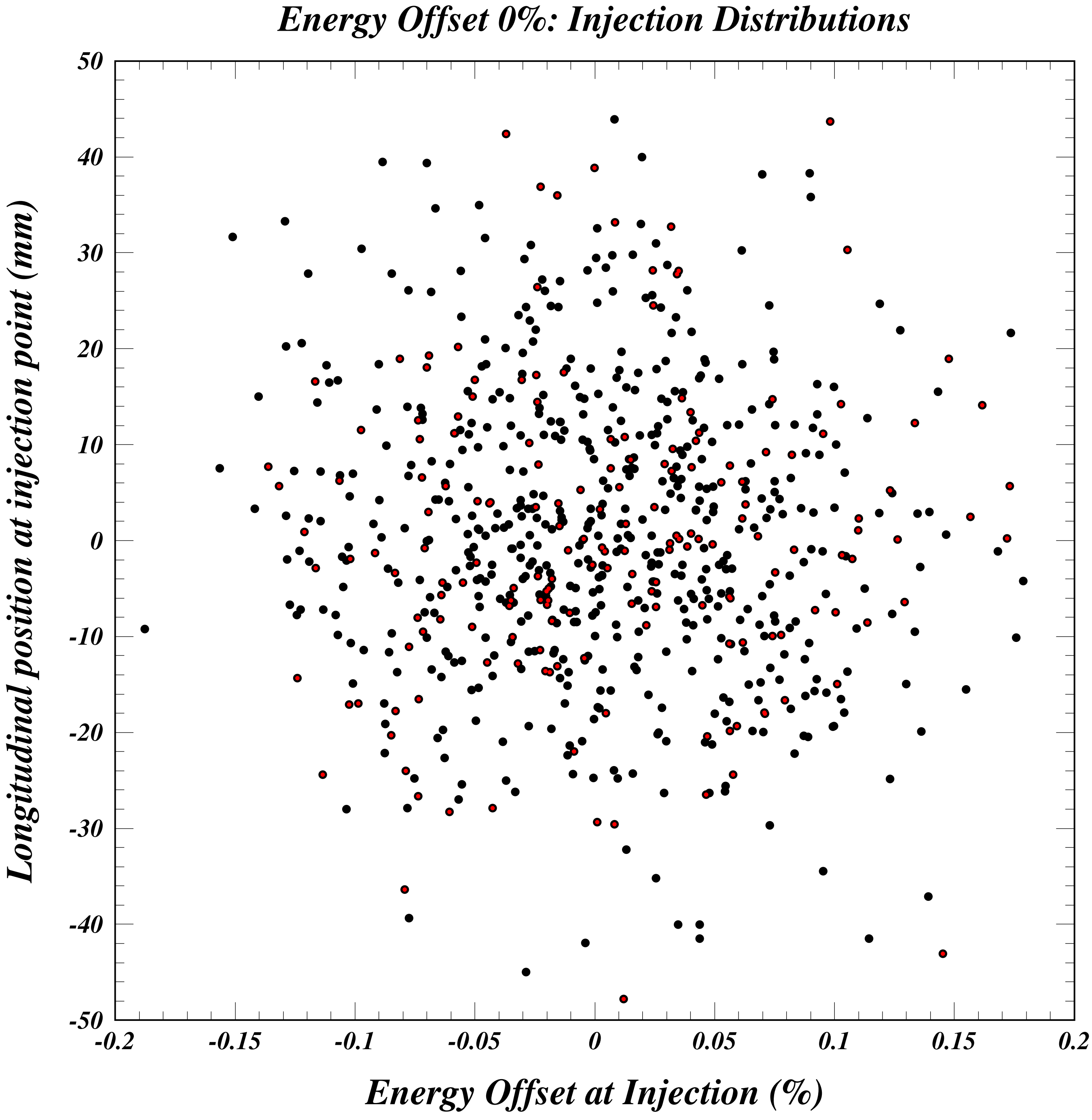
Energy Offset 0%: Injection Distributions
Longitudinal position at injection point (mm)
50
40
30
20
10
0
-10
-20
-30
-40
-50
-0.2
-0.15
-0.1
-0.05
0
0.05
0.1
0.15
0.2
Energy Offset at Injection (%)

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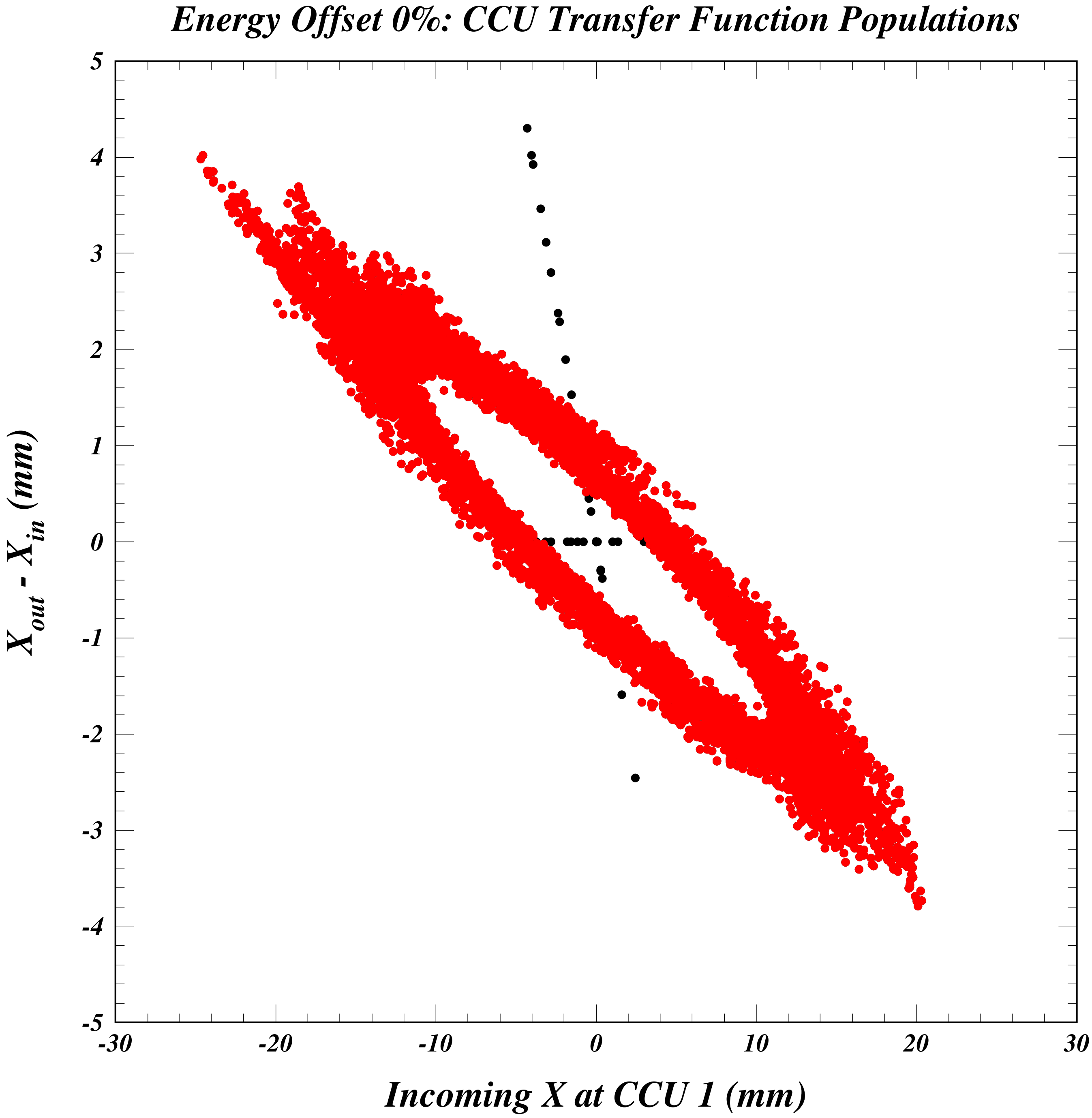
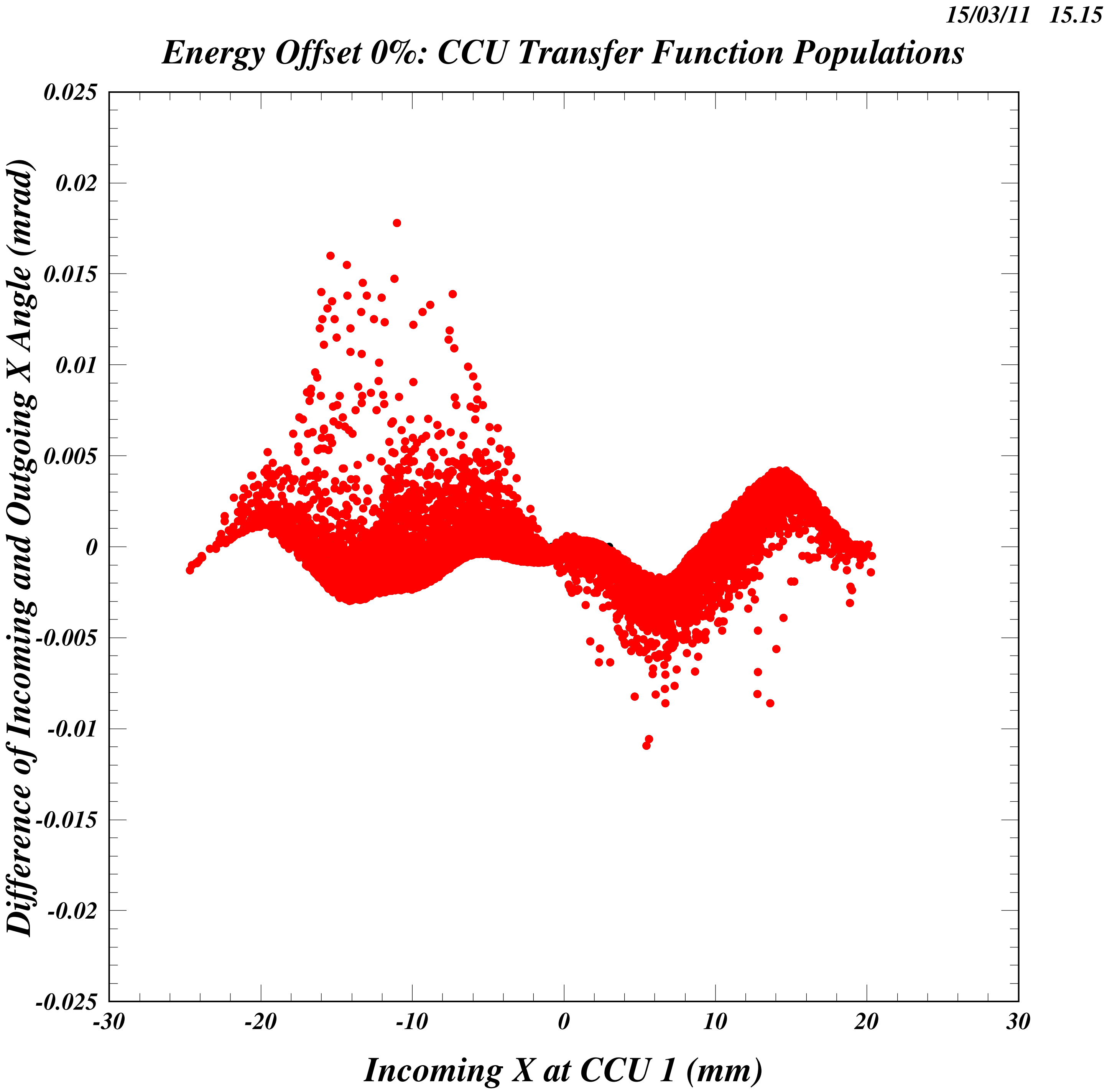
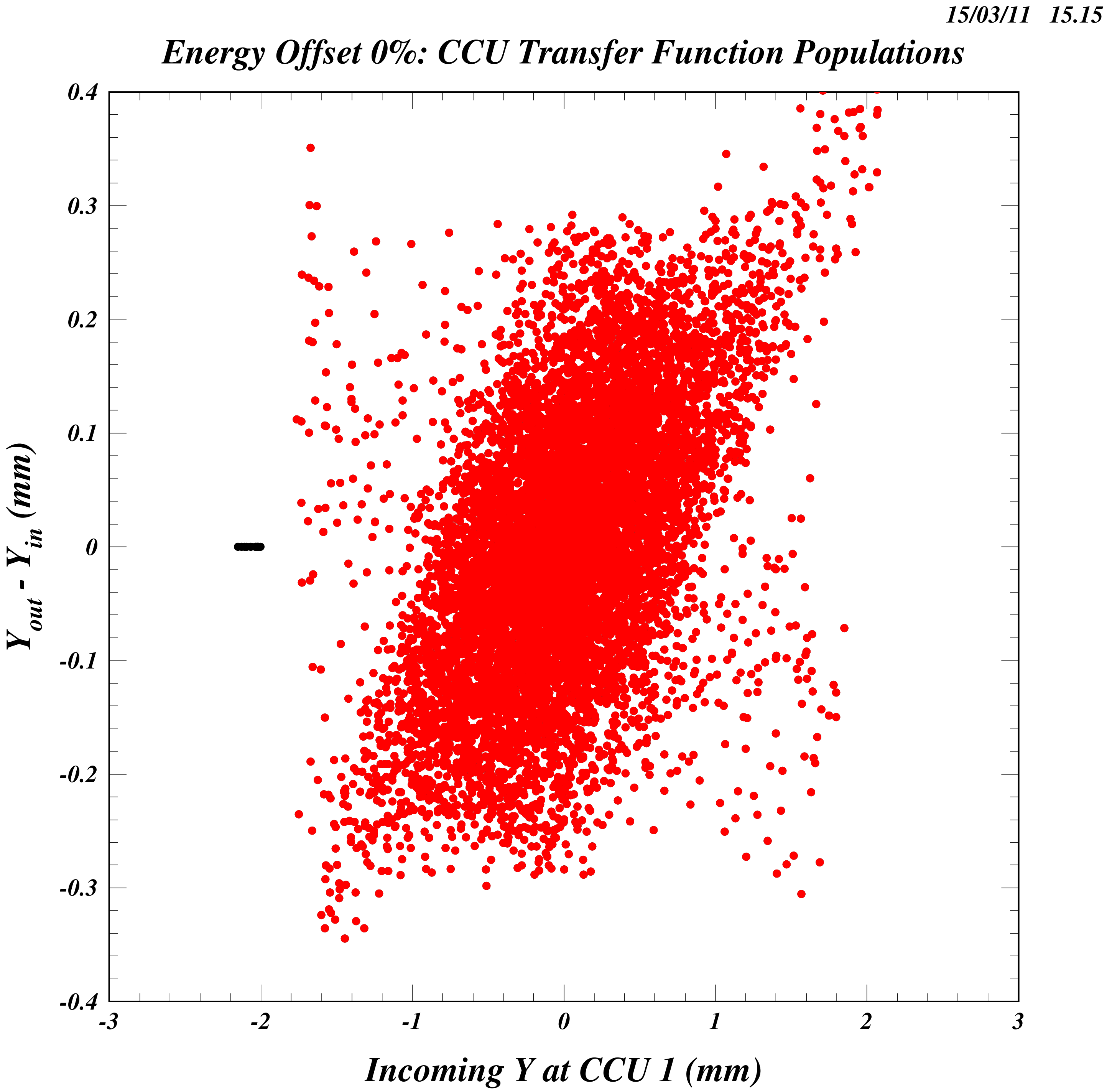
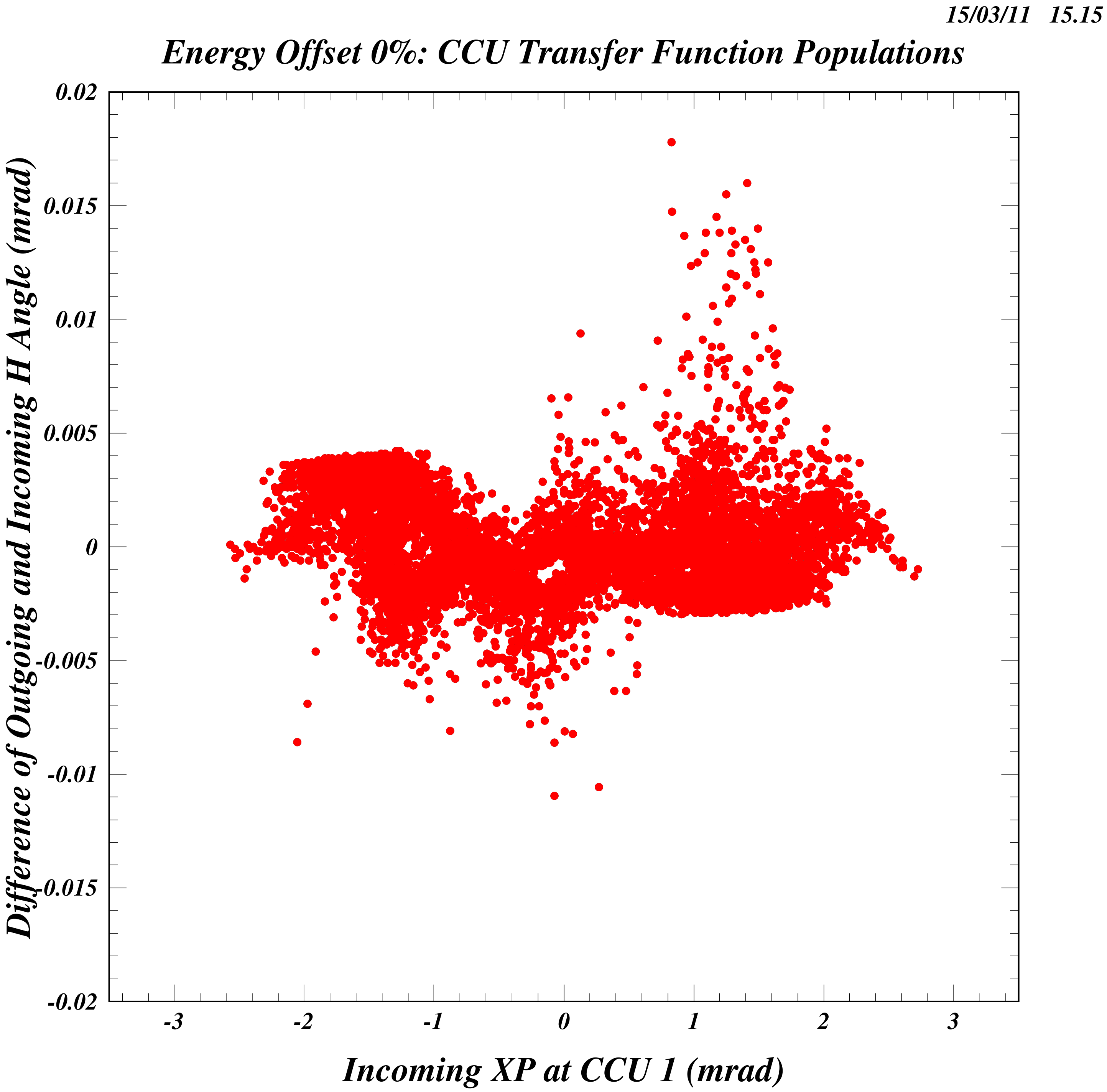
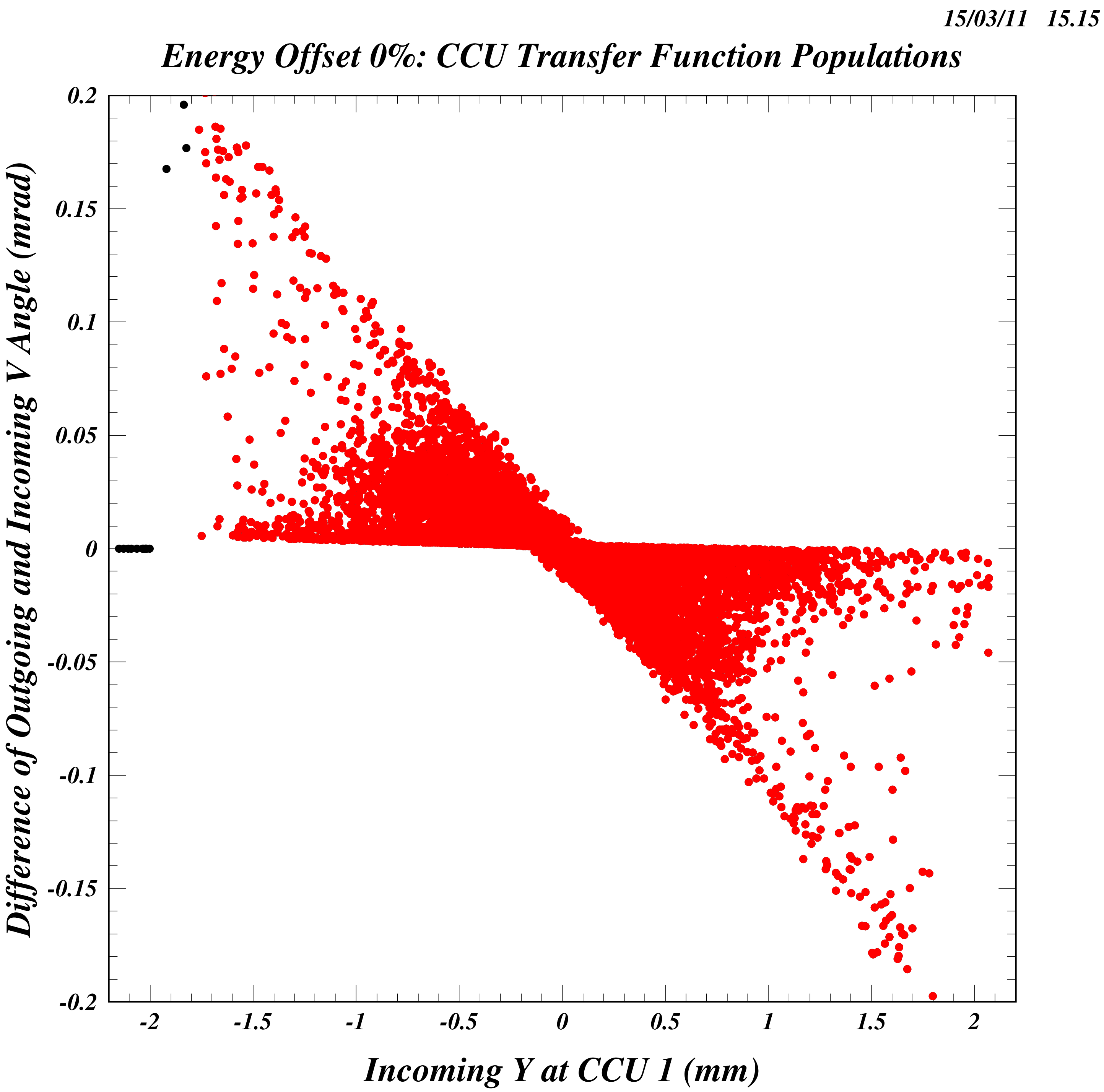


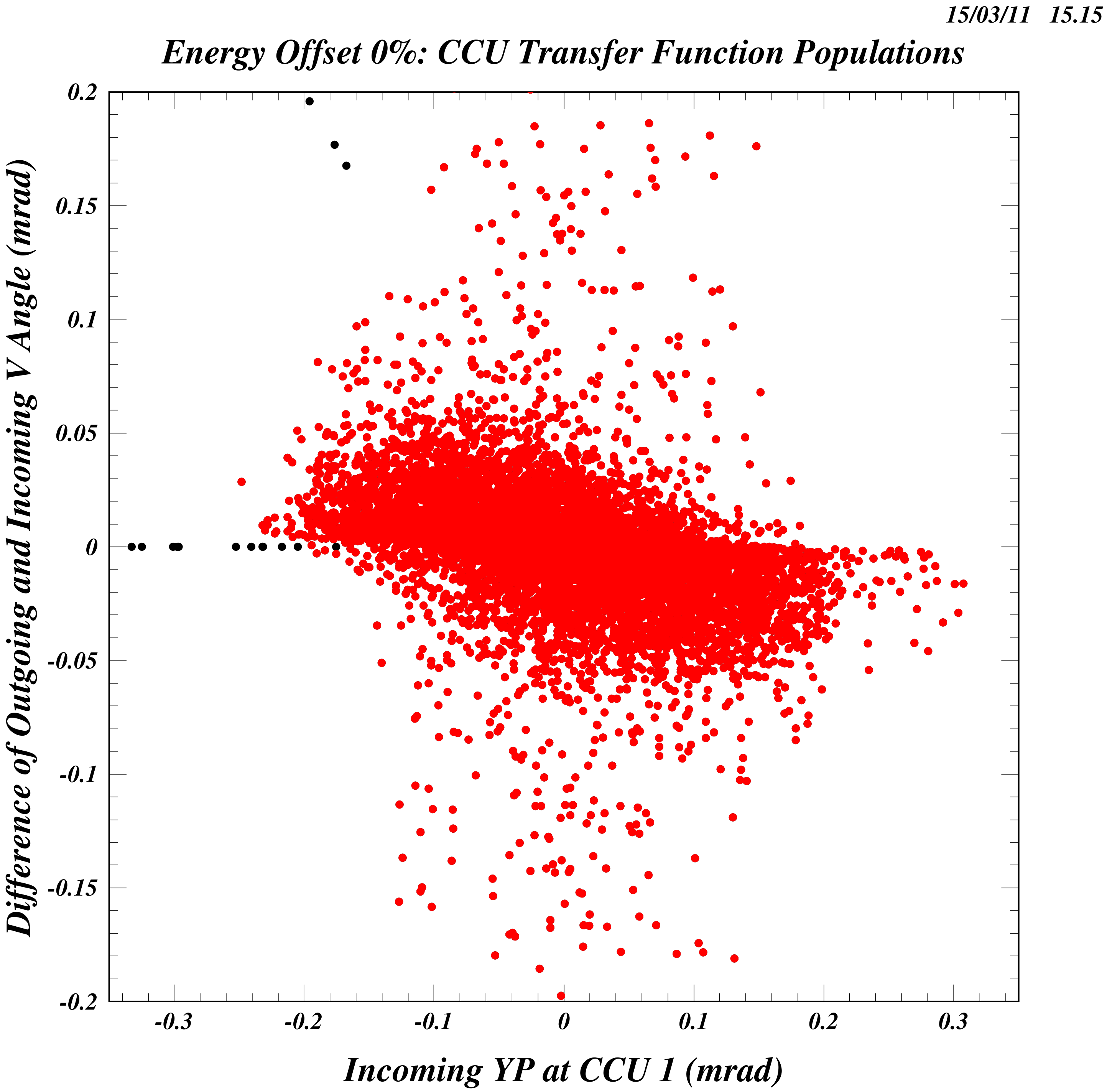
Energy Offset 0%: CCU Transfer Function Populations
$X_{out} - X_{in}$ (mm)
Incoming X at CCU 1 (mm)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-30
-20
-10
0
10
20
30

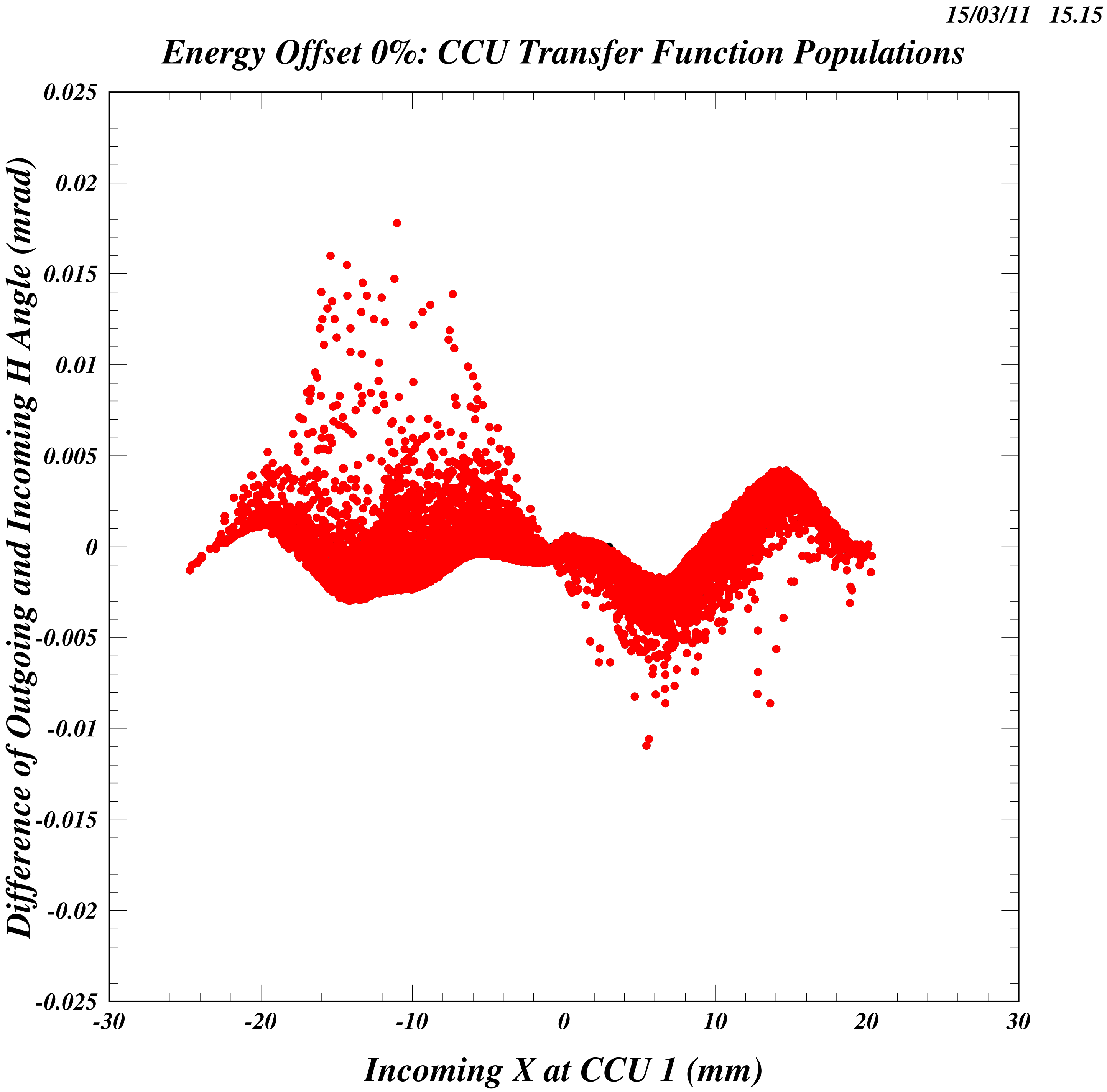

15/03/11 15.15
Energy Offset 0%: CCU Transfer Function Populations
Difference of Incoming and Outgoing X Angle (mrad)
Incoming X at CCU 1 (mm)
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
-30
-20
-10
0
10
20
30


15/03/11 15.15
Energy Offset 0%: CCU Transfer Function Populations
Y_out - Y_in (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
Incoming Y at CCU 1 (mm)


15/03/11 15.15
Energy Offset 0%: 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)

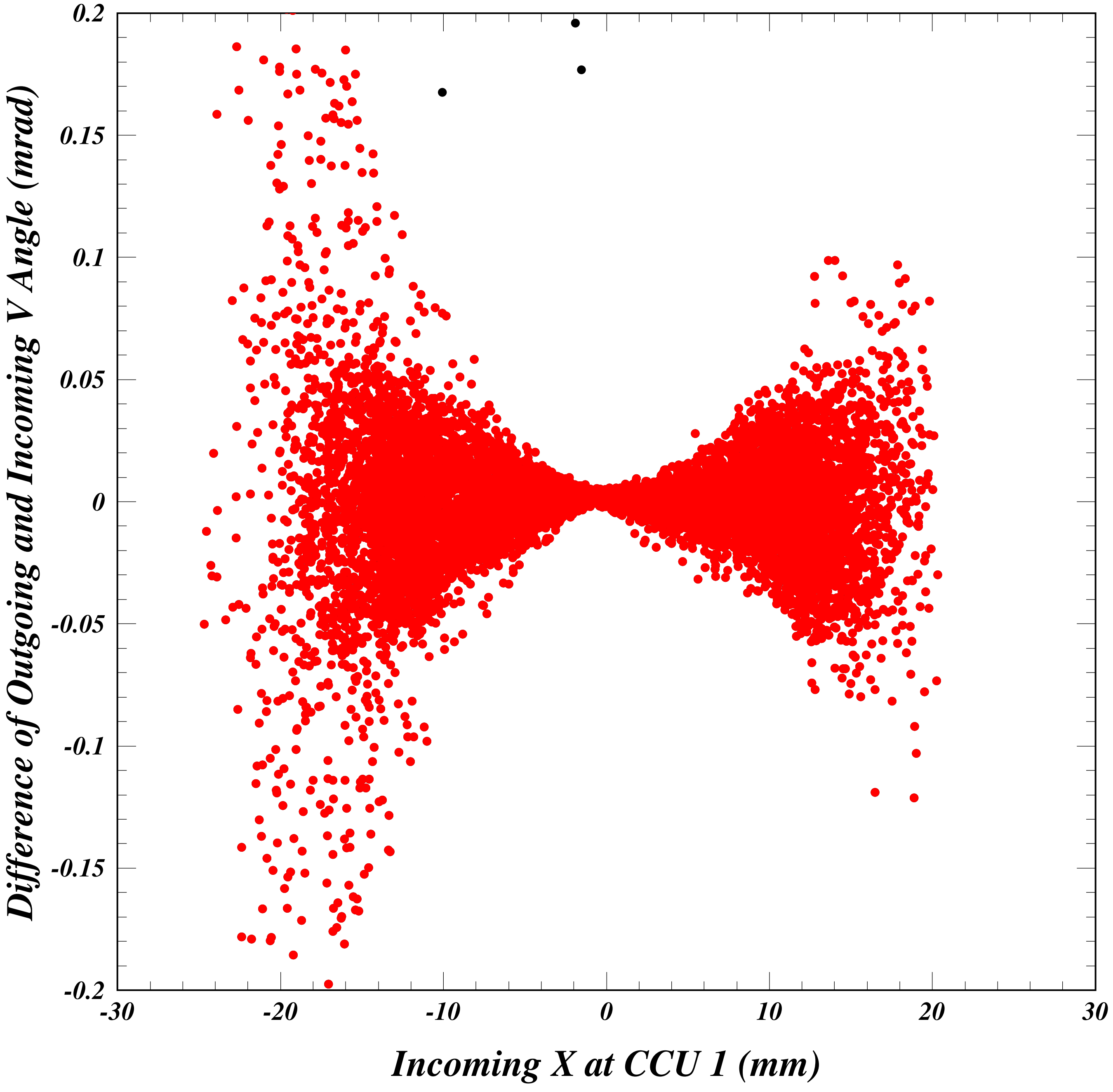

15/03/11 15.15
Energy Offset 0%: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
Incoming Y at CCU 1 (mm)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2

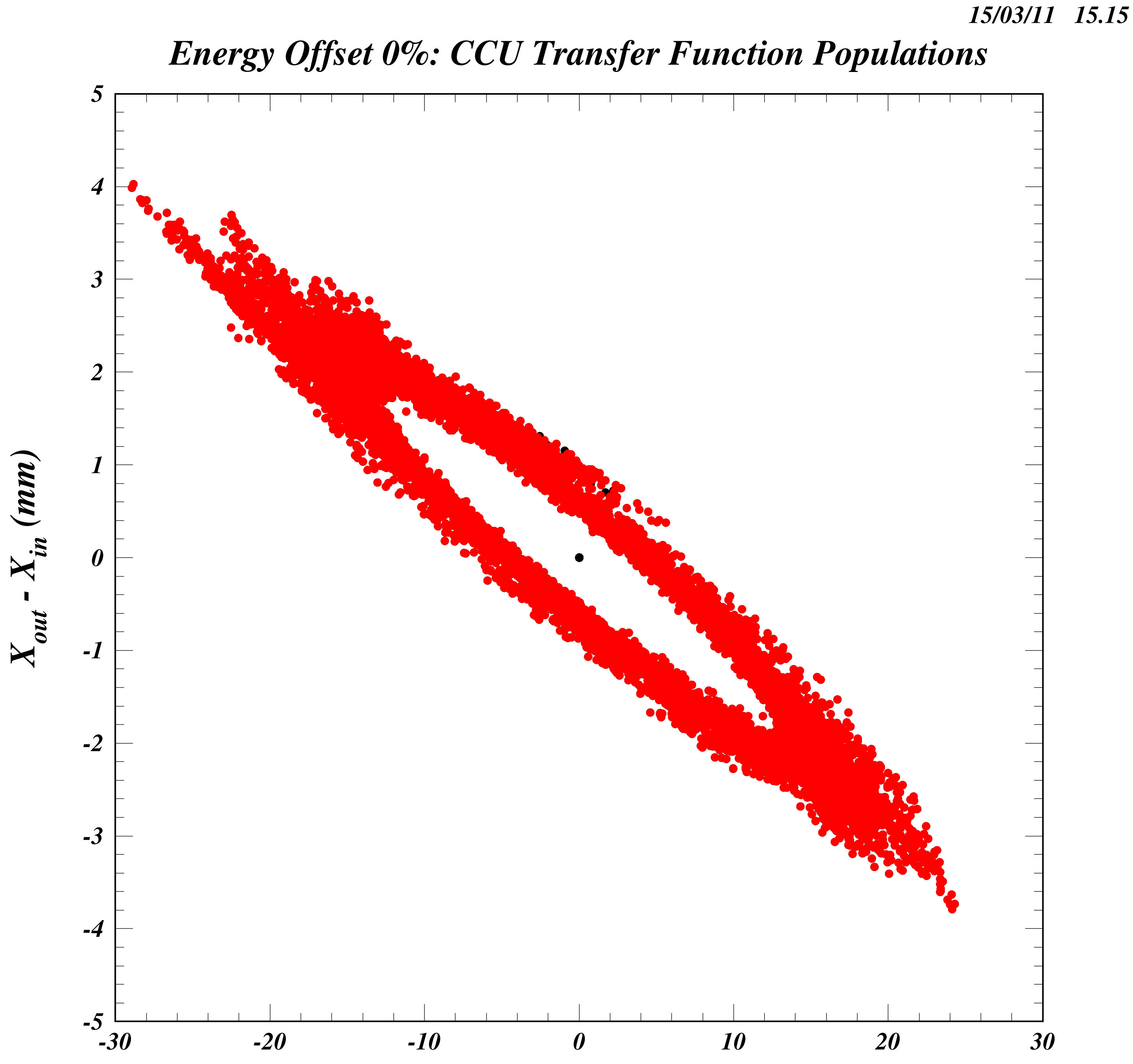

15/03/11 15.15
Energy Offset 0%: CCU Transfer Function Populations
Difference of Outgoing and Incoming V Angle (mrad)
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-0.3
-0.2
-0.1
0
0.1
0.2
0.3
Incoming YP at CCU 1 (mrad)

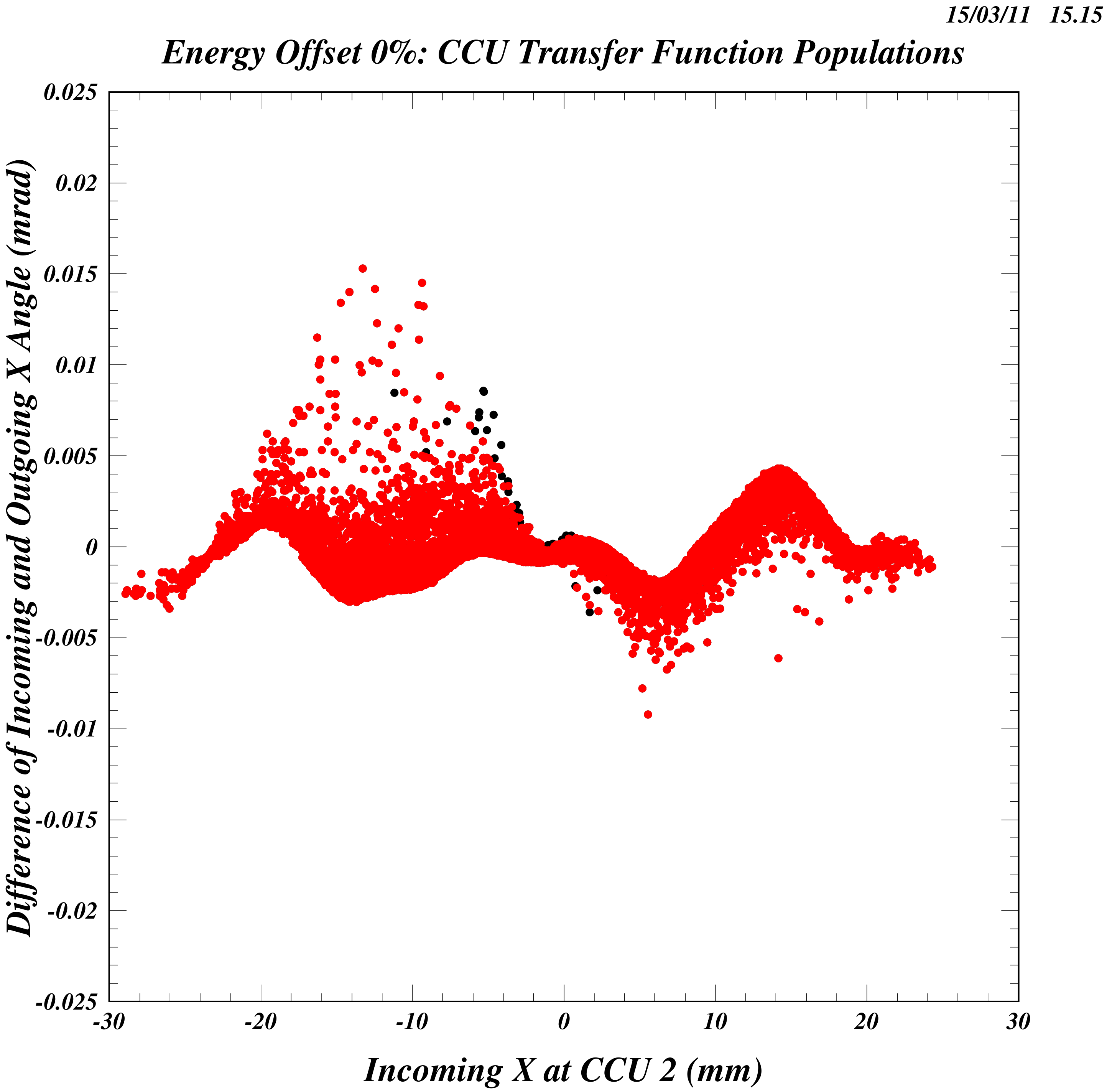

15/03/11 15.15
Energy Offset 0%: CCU Transfer Function Populations
Difference of Outgoing and Incoming H Angle (mrad)
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
-30
-20
-10
0
10
20
30
Incoming X at CCU 1 (mm)

15/03/11 15.15

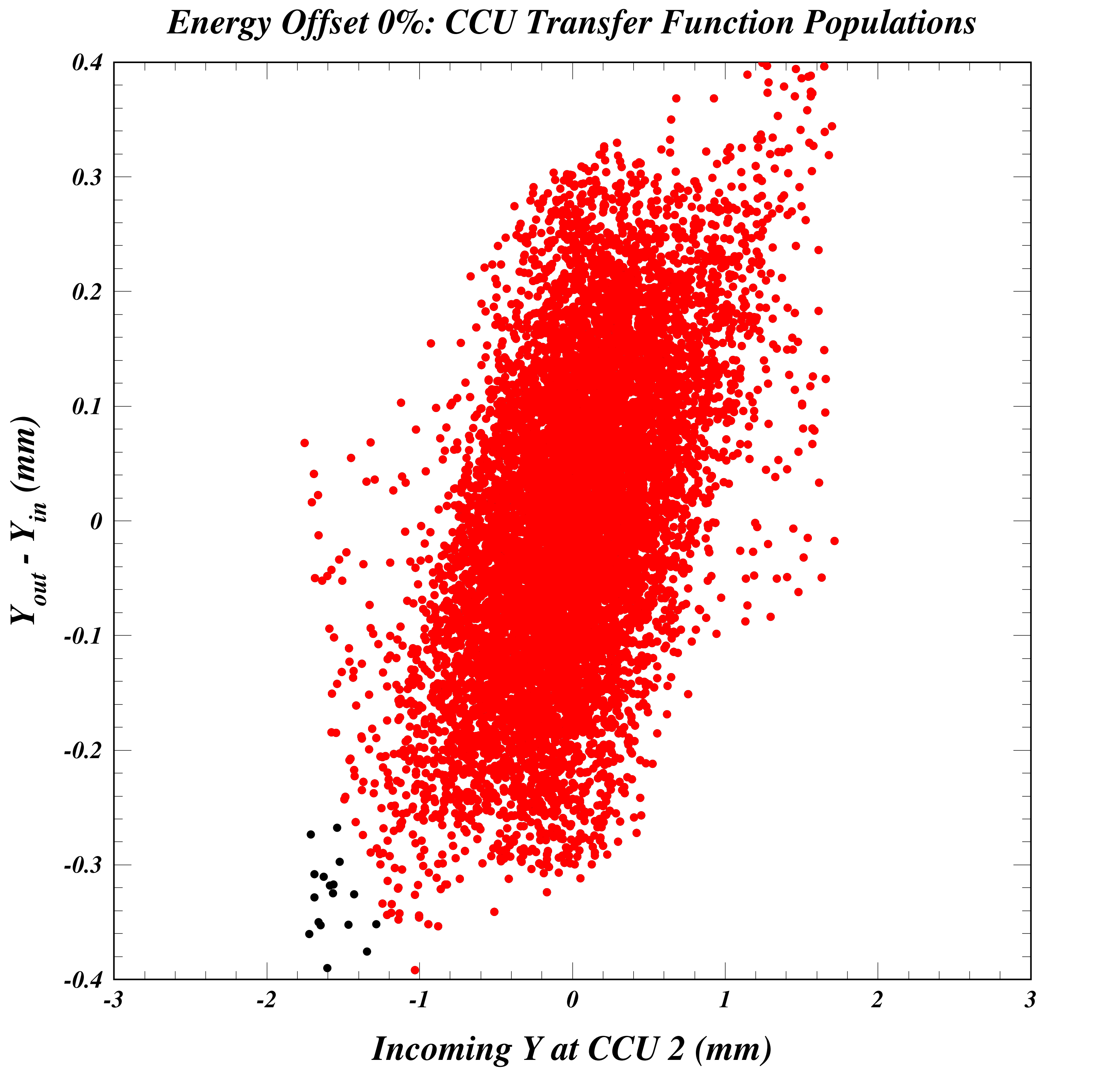
Energy Offset 0%: CCU Transfer Function Populations



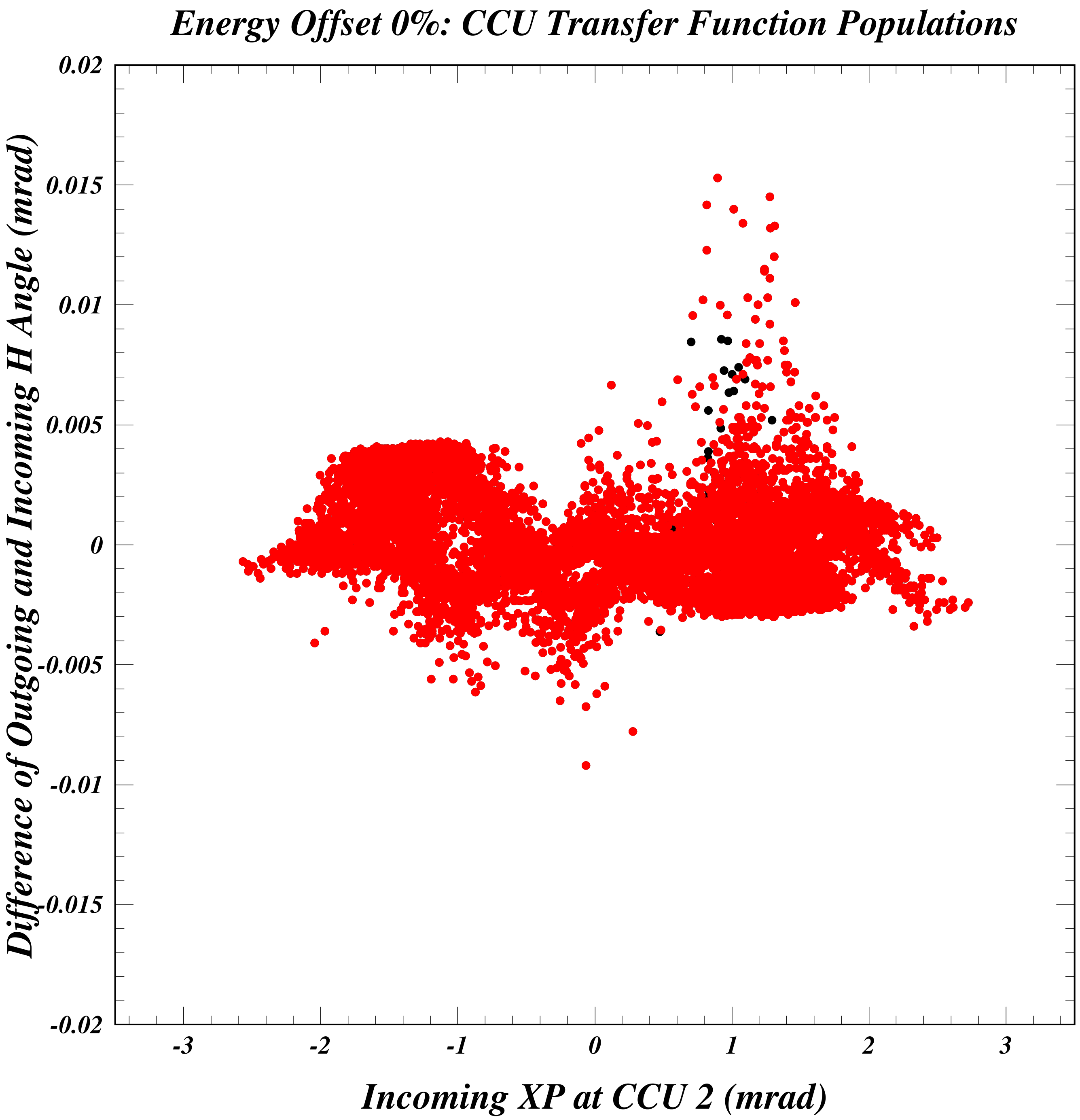

15/03/11 15.15
Energy Offset 0%: CCU Transfer Function Populations
X_{out} - X_{in} (mm)
Incoming X at CCU 2 (mm)
5
4
3
2
1
0
-1
-2
-3
-4
-5
-30
-20
-10
0
10
20
30

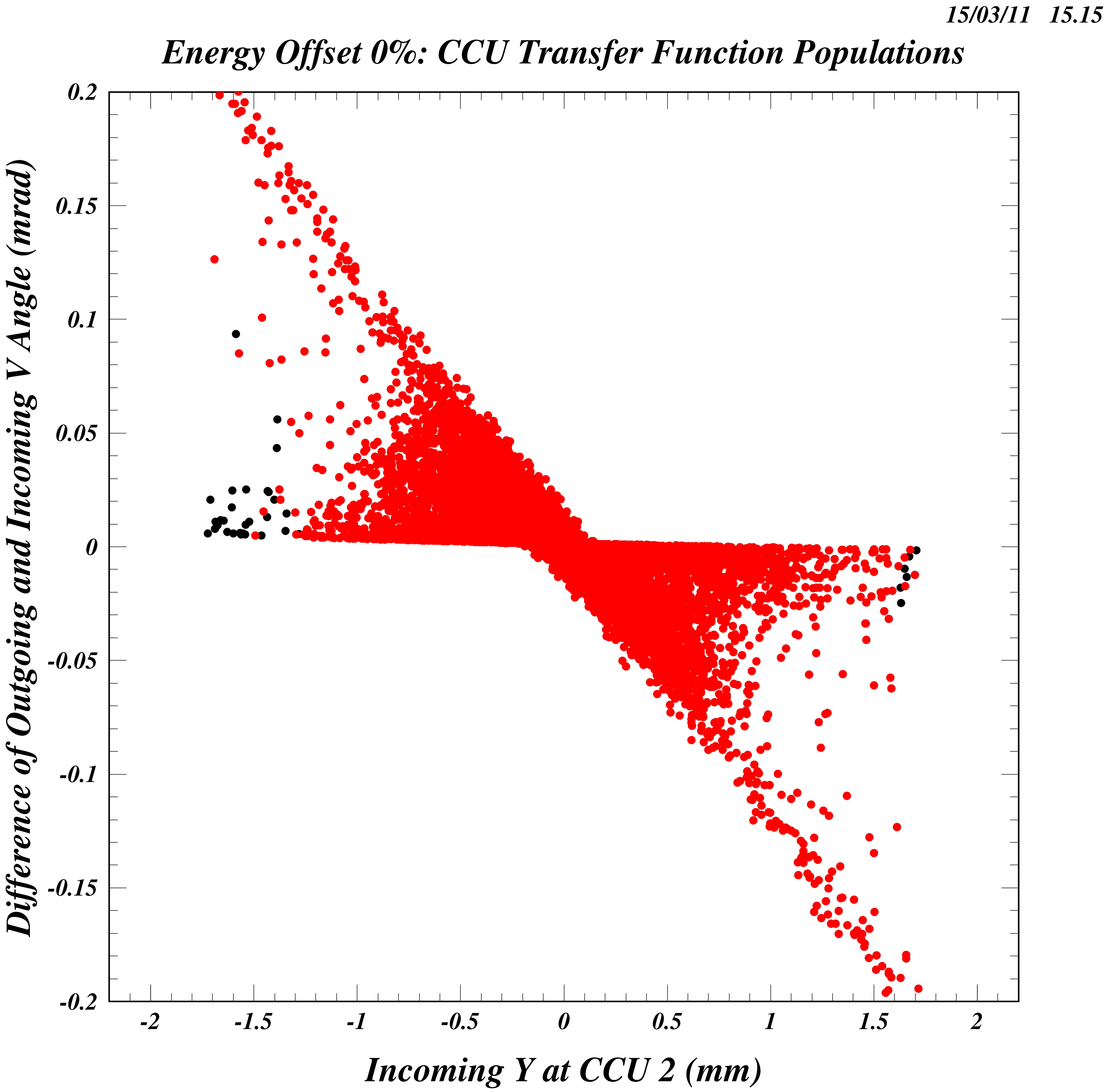

15/03/11 15.15
Energy Offset 0%: CCU Transfer Function Populations
Difference of Incoming and Outgoing X Angle (mrad)
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
-0.025
-30
-20
-10
0
10
20
30
Incoming X at CCU 2 (mm)

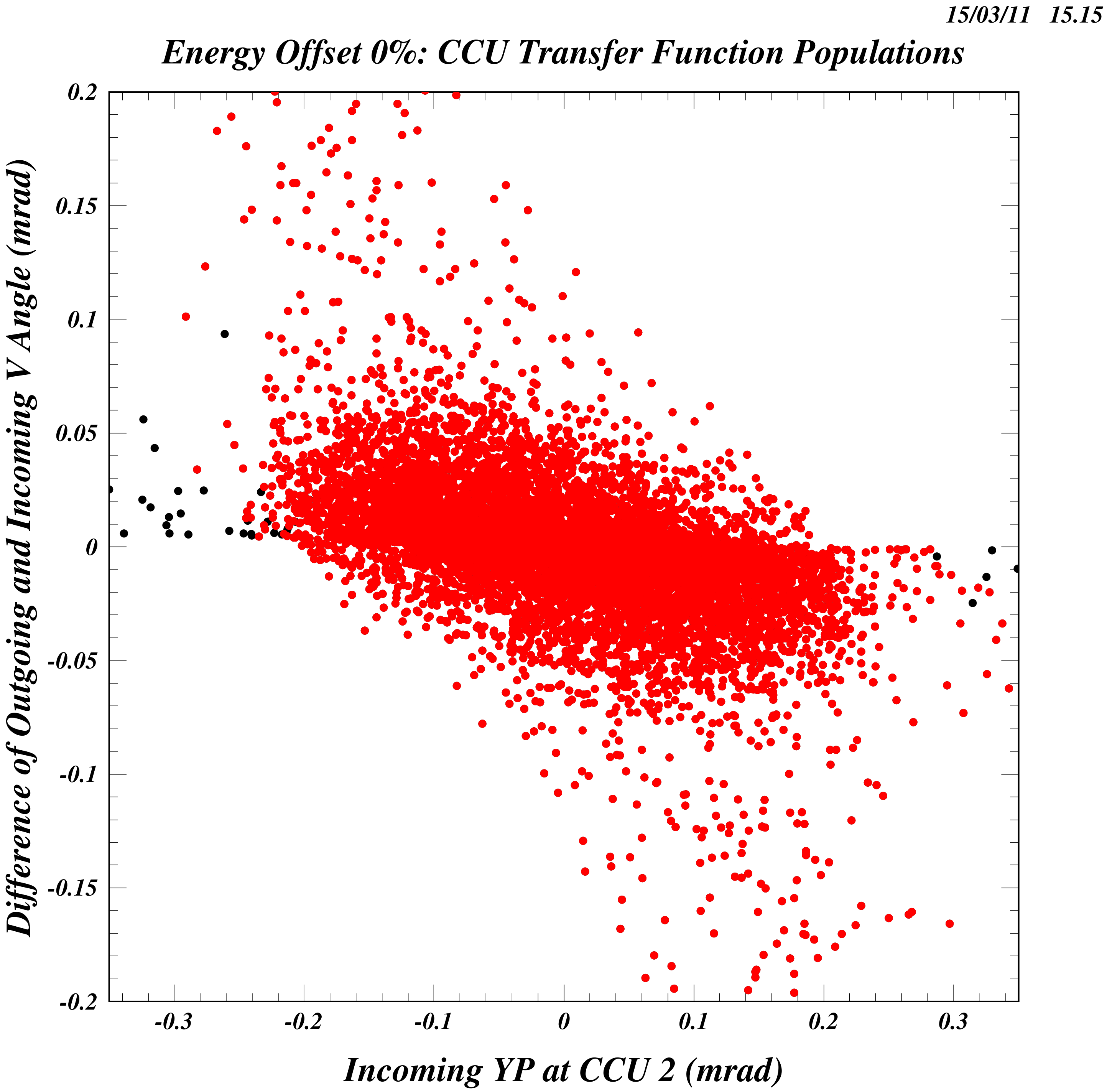
15/03/11 15.15

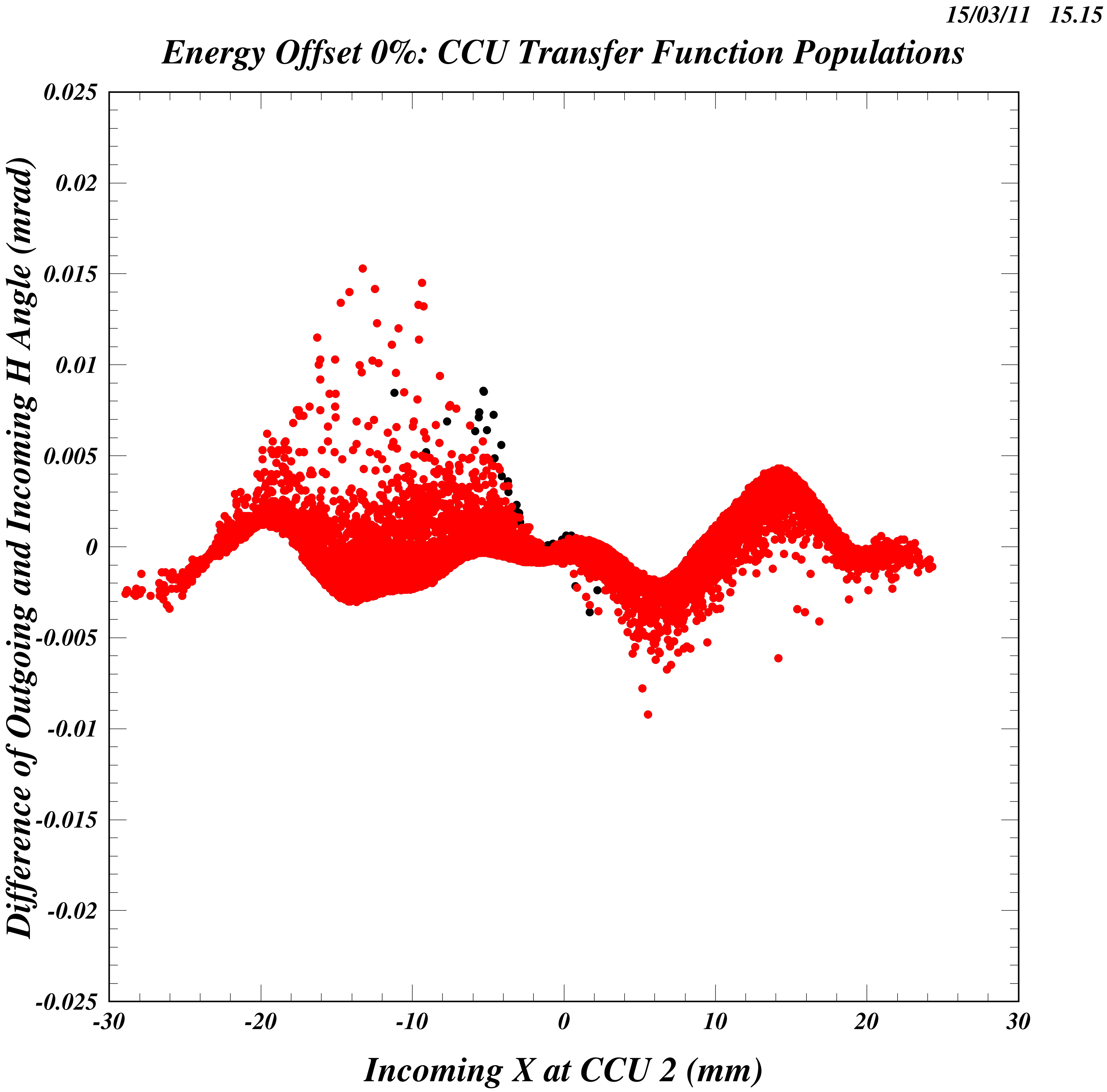

Energy Offset 0%: CCU Transfer Function Populations
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
Y_{out} - Y_{in} (mm)
-3
-2
-1
0
1
2
3
Incoming Y at CCU 2 (mm)

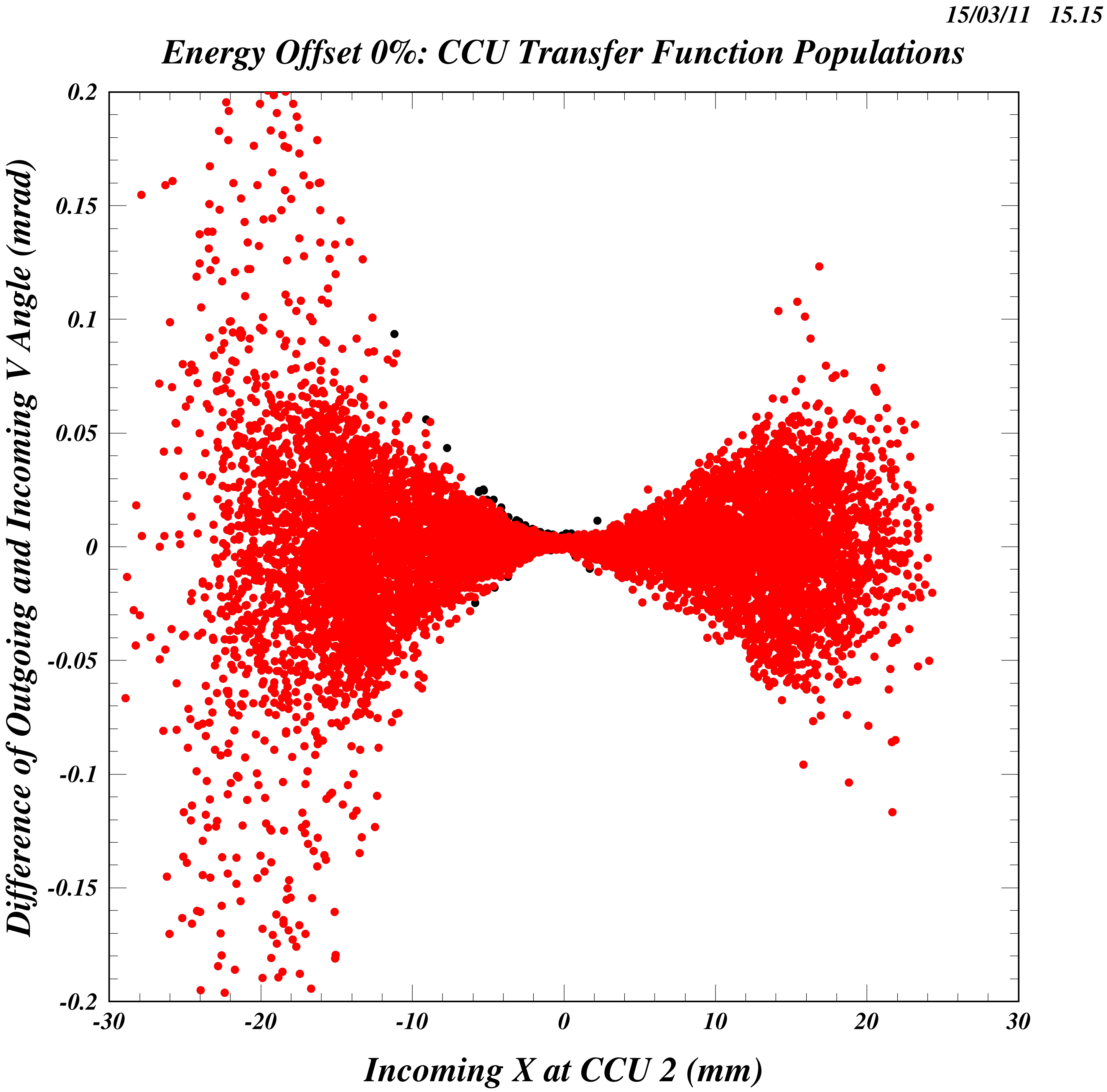
15/03/11 15.15


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)


15/03/11 15.15
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 2 (mm)


15/03/11 15.15
Energy Offset 0%: 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


15/03/11 15.15
Energy Offset 0%: 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)


15/03/11 15.15
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 2 (mm)