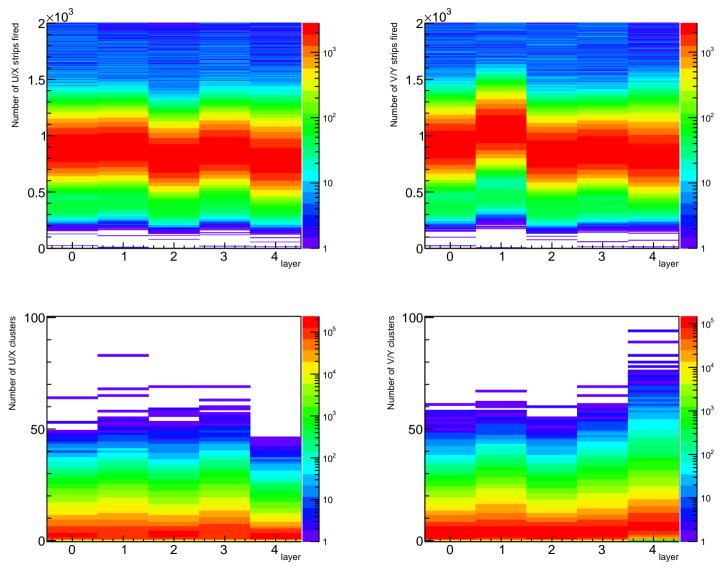
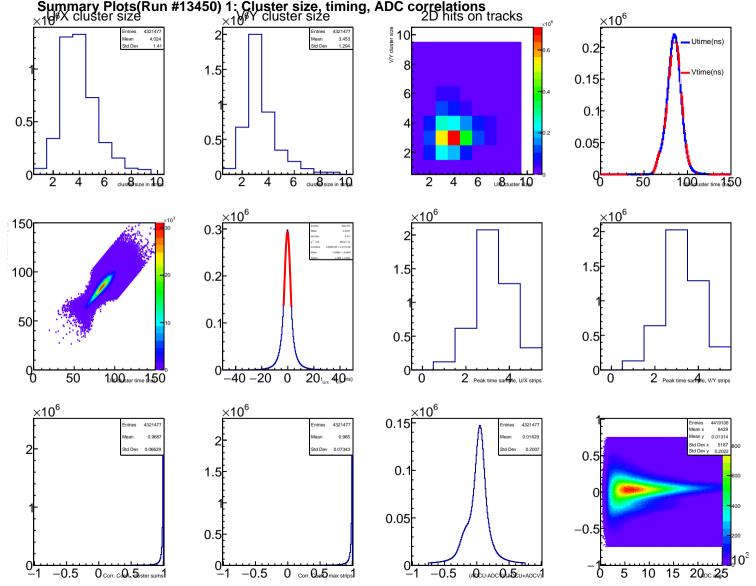
Summary Plots(Run #13450) 0: Strip and cluster multiplicities





Summary Plots(Run #13450) 2: Strip and cluster ADC distributions and correlations $\times 10^3$ $\times 10^3$ $\frac{210^{3}}{10F}$ 30 954.6 4005 8827 20 20 10 10 2U/X max str3 max sample Max strip 400sum (U/X strip1) 510 ADC cl210sum (U/X stri330 $\times 10^3$ $\times 10^3$ 4321477 1043 4379 Std Dev 618.8 Std Dev Std Dev Std Dev 20 20 10 10 Max strip ADO sum (V/Y strip1)5 ADC cl20sum (V/Y stri30 2 V/Y max st 3 max sample 2 10 § 30 × 10 3 $\times 10^3$ Mean y 1043 4271 Mean y Std Dev x 601.2 Std Dev x ⁸ 20 10 AD 20 Ster sum (U.3)0 2x strip max3ample (U/A Max strip ADC (U/X)

Summary Plots(Run #13450) 3: Tracking statistics $\times 10^6$ 10⁶ ₽ Entries 994700 Entries 981683 Entries 981683 Mean 1.014 Mean 4.402 Mean 2.603 10⁵ 10⁵ Std Dev 0.1236 Std Dev 0.6908 Std Dev 5.479 0.4 10⁴ 10⁴ 10³ 0.2 10³ 10² 10 2 10 20 30 track chi2/ndr ×10³ Best track $\times 10^3$ Entries 981683 Entries 981683 0.05096 Mean -0.07129 15 Std Dev 0.2713 Std Dev 0.0781 0.5 15 400 10 10 -0.5**Q**₆**5**_{rack X(z=0)}**1**_m 0.2 _{y(m)} -0.5 -0.20 Best 0ac2Y(z=0), m -0.20 0 Best track $\times 10^3$ $\times 10^3$ dx/dz 981683 Entries Entries 15 0.02189 -0.01262 Mean Std Dev 0.0808 Std Dev 0.02746 15 0.2 10 10 -0.20.2st track dx0z 4 -0.050.05 track dy 0.1 0.05 dy.Q.1 -0.05

Summary Plots(Run #13450) 4: Tracking residuals (inclusive)
All hits ×10⁶ <u>×10</u>⁻³ <u>×10⁻³</u> Track u/x incl. residuals (m) Track u/x incl. residuals (m) 0.4 0.15 0.3 0.1 0.2 0.05 0.1 _1 0 1 2 Track u/x incl. residuals (m) 3 4 layer 2 6 module All hits <u>×10</u>⁶ <u>×10</u>⁻³ <u>×10</u>⁻³ Track v/y incl. residuals (m) Track v/y incl. residuals (m) 0.4 0.15 0.3 0.2 0.05 0. 2 _1 0 2 3 4 layer 6

module

Summary Plots(Run #13450) 5: Tracking residuals (exclusive)
All hits ×10⁶ ×10⁻³ ×10⁻³ Track u/x excl. residuals (m) Track u/x excl. residuals (m) 0.15 0.1 0.05 2 6 0 1 2 Track u/x excl. residuals (m) 2 3 4 layer 0 0 4 module All hits ×10⁻³ ×10⁻³ ×10⁶ Track v/y excl. residuals (m) Track v/y excl. residuals (m) 0.15 0. 0.05

3

4 layer

2

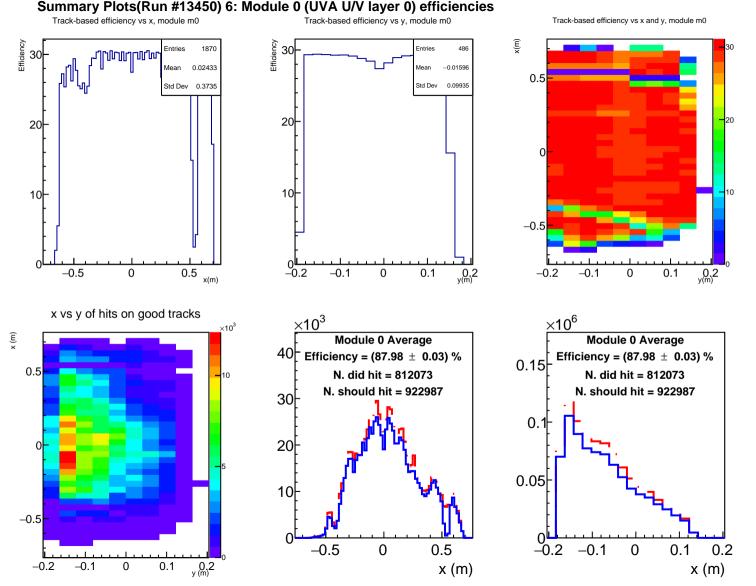
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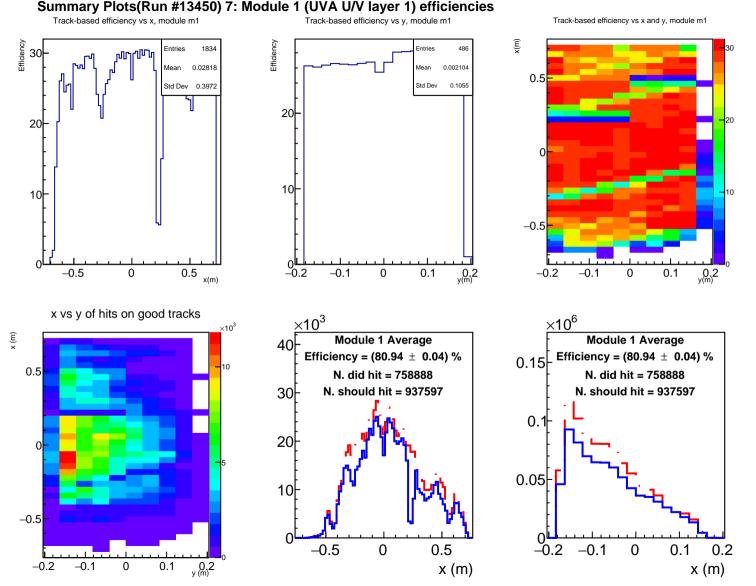
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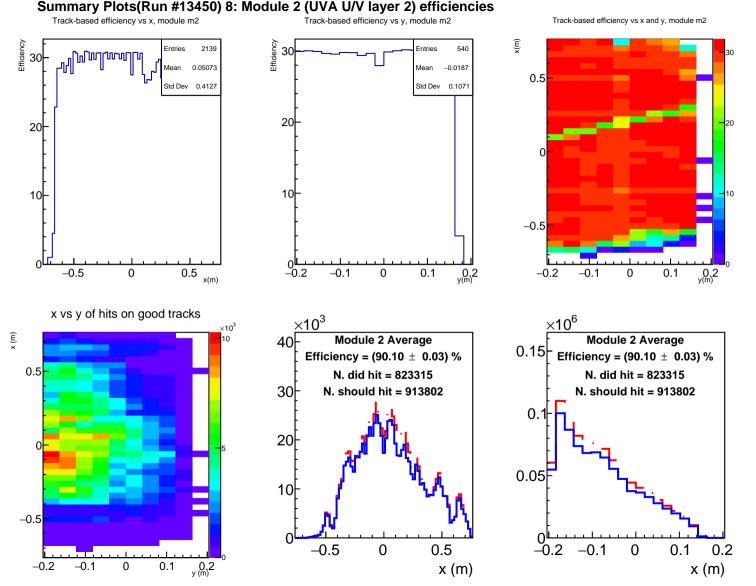
6

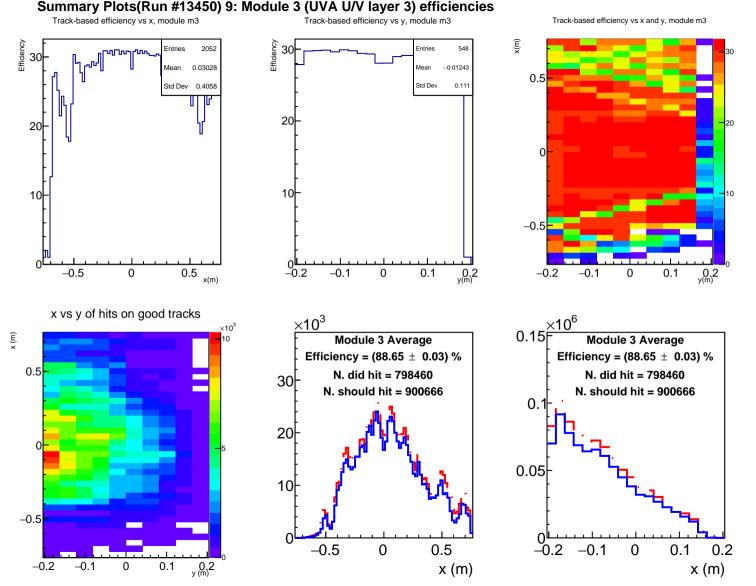
module

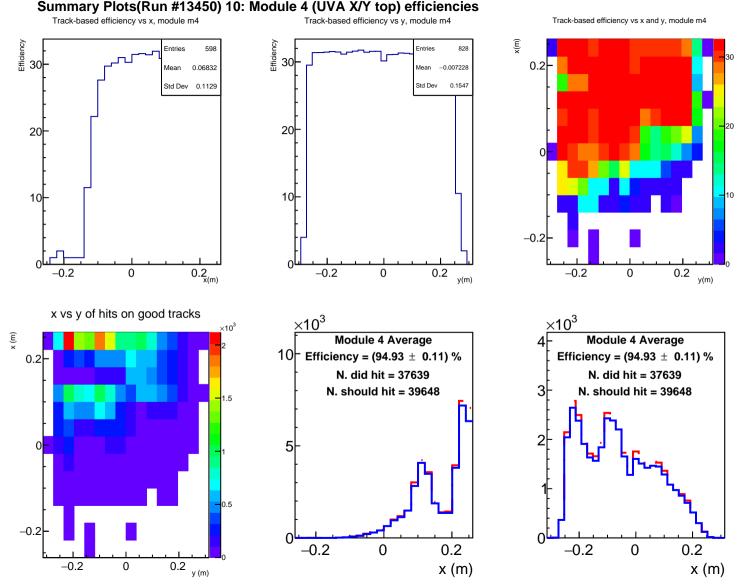
-2

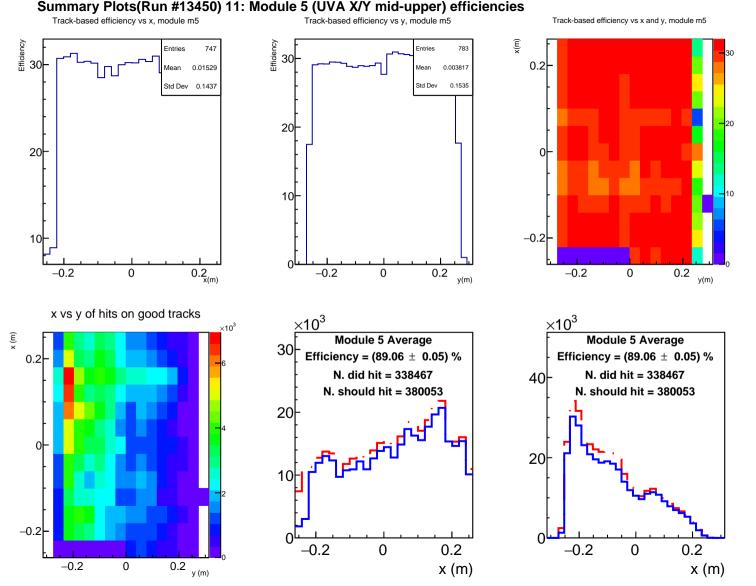


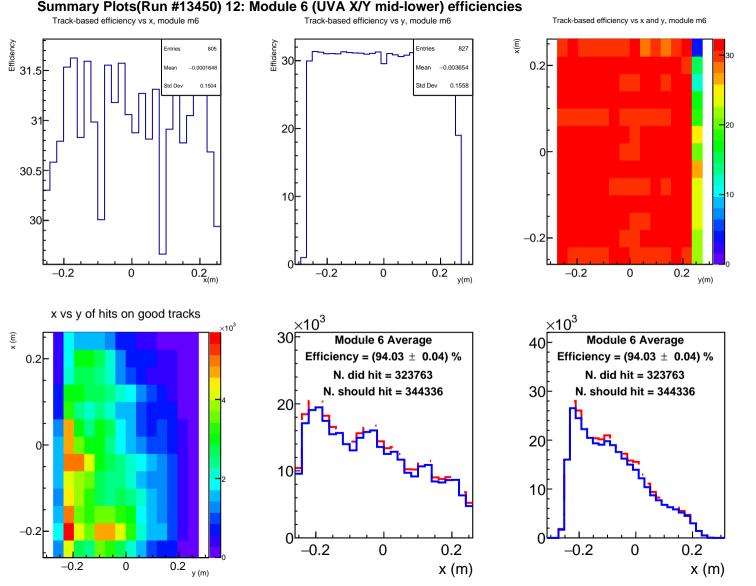


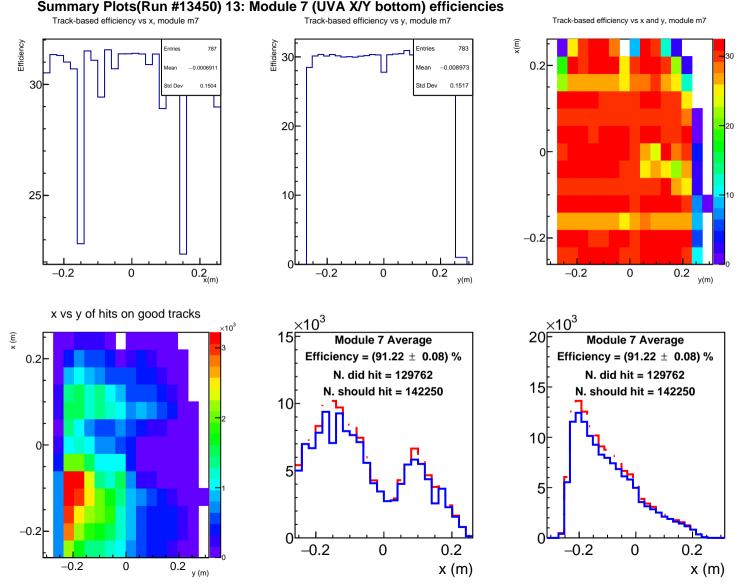












track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x Ê 30 Entries **ՎիլՄՍՄԱ**ԼՄՄՄԻ 0.02424 -0.01753 Std Dev 0.3745 Std Dev 0.1001 20 20 10 10 -0.5 0.2 -0.2 0.5 -0.1 -0.1 0.1 -0.50.1 0 0 -0.20 x(m) x vs y of hits on good tracks (m) <u>×1</u>0³ ×10⁶ ×10³ Ē Layer 0 Average Layer 0 Average Efficiency = (87.98 \pm 0.03) % Efficiency = (87.98 \pm 0.03) % 0.15 0.5 N. did hit = 812073 N. did hit = 812073 N. should hit = 922987 N. should hit = 922987 30 0. 20 0.05 10 -0.5 -0.5 0 0.5 -0.2 -0.10 0.1 0.2 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13450) 14: Layer 0 efficiencies

Summary Plots(Run #13450) 15: Layer 1 efficiencies track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x efficiency Ê efficiency Entries Entries 1836 30 Mean 0.03241 Mean -0.01559 Std Dev 0.4003 Std Dev 0.1061 20 20 10 10 -0.5 _0.2 -0.1 0.1 -0.2 -0.50 0.5 -0.10.1 0 0 y(m) y(m) x vs y of hits on good tracks (m) <u>×1</u>0³ ×10⁶ ×10³ Œ, Layer 1 Average Layer 1 Average 40 0.15 Efficiency = (80.94 ± 0.04) % Efficiency = (80.94 \pm 0.04) % 0.5 N. did hit = 758888 N. did hit = 758888 N. should hit = 937597 N. should hit = 937597 30 0. 20 0 0.05 10 -0.5-0.50 0.5 -0.2 0.1 -0.10 -0.2-0.10.1 x(m) y(m) y(m)

track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x Ê Entries 2122 Entries ^ՀԿիսուդիումիա 0.03981 -0.01479 0.5 0.4125 Std Dev 0.1118 Std Dev 20 20 10 10 -0.5 0LL -0.2 -0.1 0.2 y(m) -0.50.5 0.1 -0.2-0.10.1 0.2 y(m) 0 0 0 x(m) 40F ×10³ x vs y of hits on good tracks (m) $\times 10^6$ ×10³ Ē Layer 2 Average Layer 2 Average 0.15 Efficiency = (90.10 \pm 0.03) % Efficiency = (90.10 \pm 0.03) % 0.5 N. did hit = 823315 N. did hit = 823315 30 N. should hit = 913802 N. should hit = 913802 0.1 20 0.05 10 -0.5 -0.50.5 0.1 0.2 0 -0.2-0.10 0.2 y(m) -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13450) 16: Layer 2 efficiencies

Summary Plots(Run #13450) 17: Layer 3 efficiencies track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x Ê 2030 Entries Entries 0.01943 -0.01374 Std Dev 0.4048 Std Dev 0.1125 20 10 10 -0.5 -0.1 -0.2 -0.50.5 -0.2 0.1 0.2-0.10 0.1 0 0 x(m) x vs y of hits on good tracks (m) 0.15F $\times 10^3$ ×10³ Œ, Layer 3 Average Layer 3 Average Efficiency = (88.65 \pm 0.03) % Efficiency = (88.65 \pm 0.03) % 0.5 N. did hit = 798460 N. did hit = 798460 30 N. should hit = 900666 N. should hit = 900666 0.1-□ 20 0.05 10 -0.5 -0.50.5 -0.10.1 0.2 0 -0.2 0 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13450) 18: Layer 4 efficiencies track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x Ē Entries 2923 Entries 0.076 Mean -0.011 Std Dev 0.5543 Std Dev 0.1606 0.5 20 20 10 10 0.5 -0.2 0.2 0.2 -0.50 -0.20 x vs y of hits on good tracks (m) <u>×1</u>0³ $\times 10^3$ ×10³ Layer 4 Average Layer 4 Average 30 100 - Efficiency = (91.54 \pm 0.03) % Efficiency = (91.54 \pm 0.03) % N. did hit = 829631 N. did hit = 829631 0.5 N. should hit = 906287 N. should hit = 906287 20 50 10 -0.5 -0.50.5 -0.20.2 0 0 -0.20.2 x(m) y(m) y(m)

Summary Plots(Run #13450) 19: Module average efficiencies

