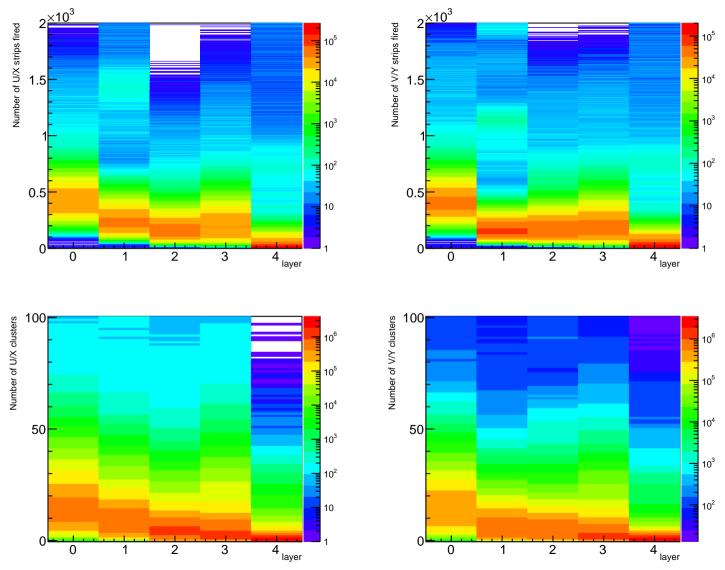
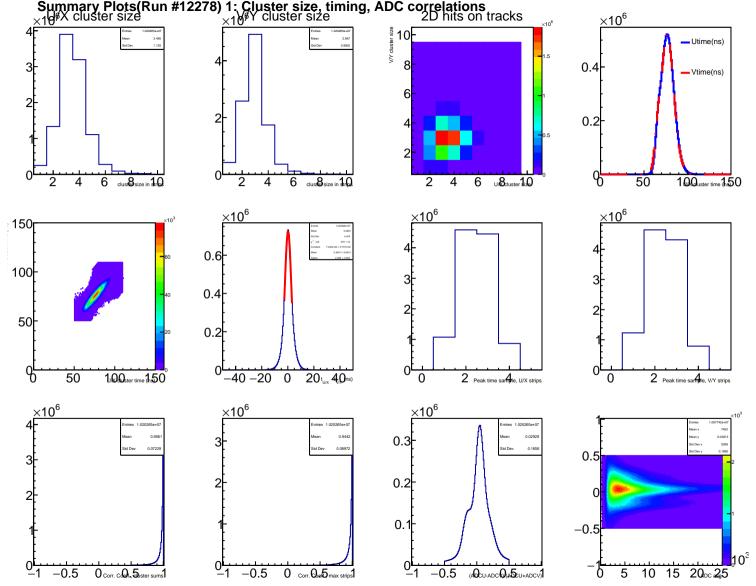
Summary Plots(Run #12278) 0: Strip and cluster multiplicities





Summary Plots(Run #12278) 2: Strip and cluster ADC distributions and correlations

×10³

×10³

×10³

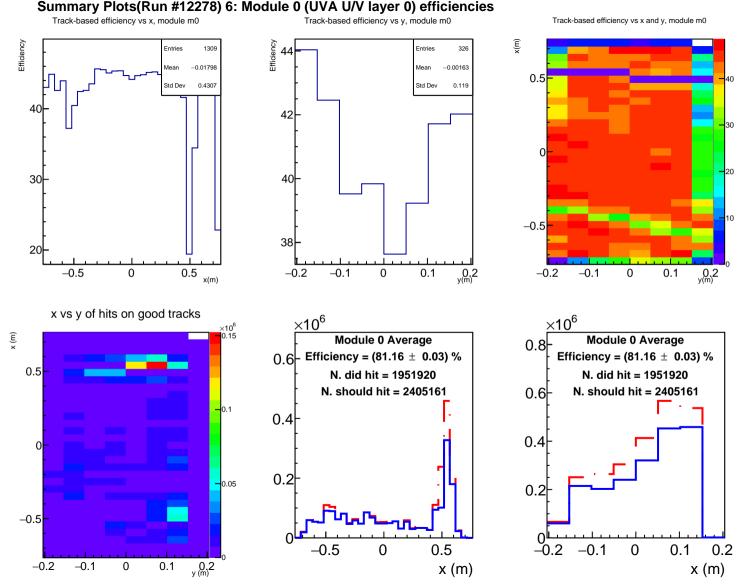
×10³

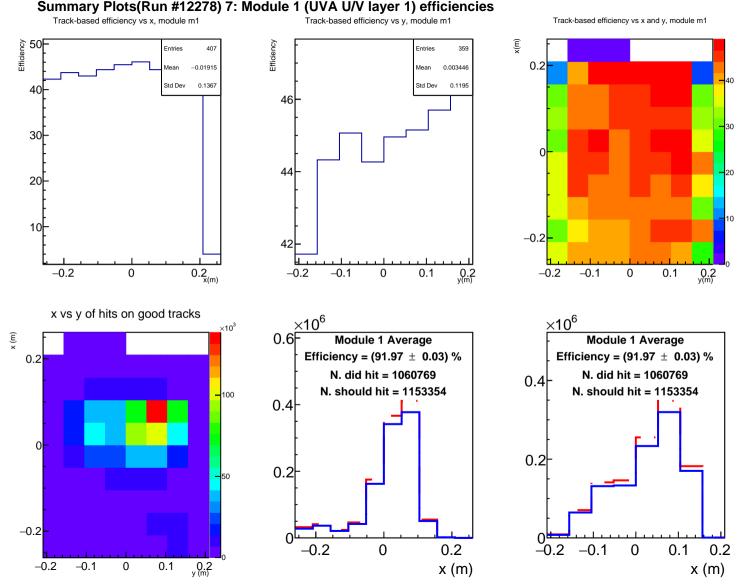
Enter: 1,000056-07 $\times 10^3$ 100-/ ADC cl20sum (U/X stri30 2U/X max str3 max sample Max strip 400sum (U/X strip1) 5 $\times 10^3$ Max strip 100sum (V/Y strip1) ADC cl20sum (V/Y stri30 2 V/Y max st 3 max sample §30<mark>×10</mark>³ $\times 10^3$ ₹20 10³ Max strip ADC (U/X) AD 20 Ster sum (U.3)0 2x strip max3ample (U/X4

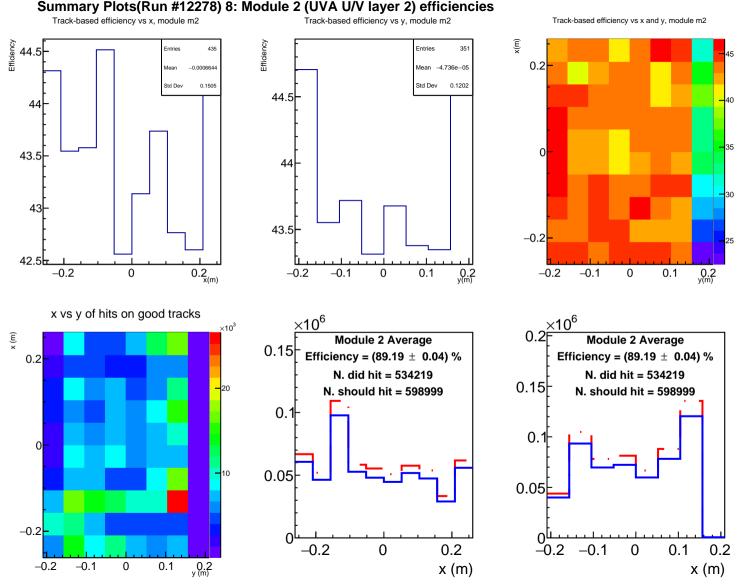
Summary Plots(Run #12278) 3: Tracking statistics ×10⁶ 10⁷ **F** Entries 9922018 Entries 2317492 10⁵ Mean 0.2515 Mean 4,402 Mean 7.318 10⁶ Std Dev 0.4551 Std Dev 0.4904 Std Dev 7.948 10⁵ 10^{4} 10^{4} 10³ 0.5 10^{2} 10 10^{3} 10 20 30 track chi2/ndr Best track $\times 10^3$ $\times 10^3$ 2317492 Entries 2317492 0.1155 Mean Mean 0.02172 0.4316 Std Dev Std Dev 0.08775 40 0.5 100 20 50 -0.5-0.2 0.2 _{y(m)} -0.5 -0.20 Best 0ac2Y(z=0), m 0 100×10³ Best track $\times 10^3$ 2317492 Entries 2317492 30 Mean 0.1177 Mean 0.02664 0.1639 0.03807 Std Dev Std Dev 0.2 20 50 10 -0.050.05 track dy 0.1 0.05

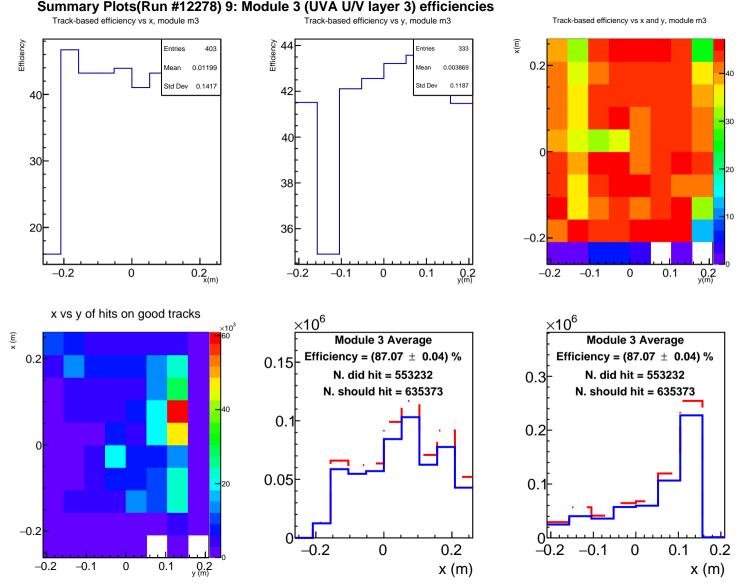
Summary Plots(Run #12278) 4: Tracking residuals (inclusive)
All hits ×10⁻³ ×10⁶ ×10⁻³ Track u/x incl. residuals (m) Track u/x incl. residuals (m) 0.4 0.15 0.3 0.2 0.05 0. 3 8 module 0 1 2 Track u/x incl. residuals (m) 4 layer 2 6 All hits ×10⁶ Track v/y incl. residuals (m) Track v/y incl. residuals (m) 0.4 0.15 0.3 0.2 0.05 0. 8 module 0 2 3 4 layer 2 6

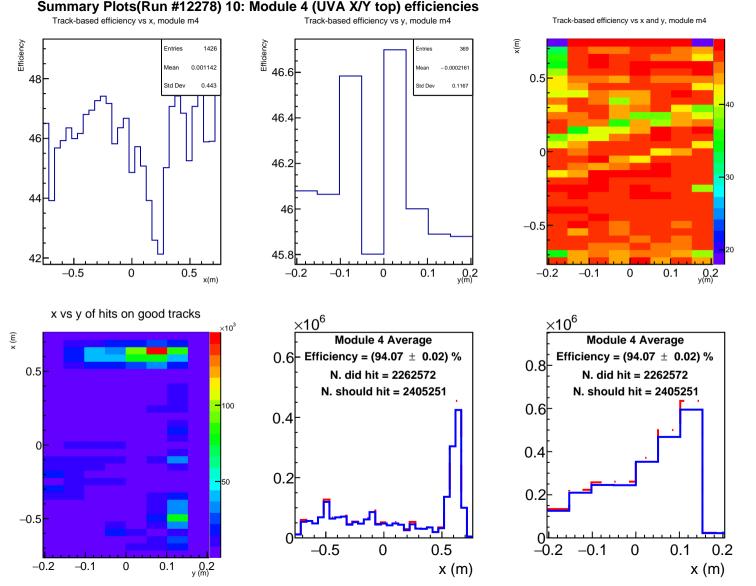
Summary Plots(Run #12278) 5: Tracking residuals (exclusive)
All hits ×10⁶ ×10⁻³ ×10⁻³ Track u/x excl. residuals (m) Track u/x excl. residuals (m) 0.15 0. 0.05 -2 0 1 2 Track u/x excl. residuals (m) 3 2 8 module 2 4 layer 6 0 4 All hits ×10⁶ ×10⁻³ ×10⁻³ Track v/y excl. residuals (m) Track v/y excl. residuals (m) 0.2 0.15 0.1 0.05 -2 0 1 2 Track v/y excl. residuals (m) 3 2 8 module 0 2 4 layer 6

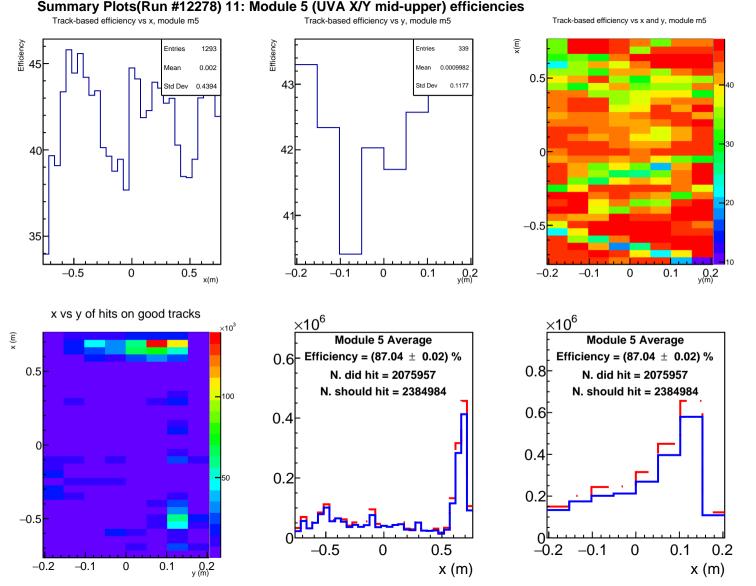


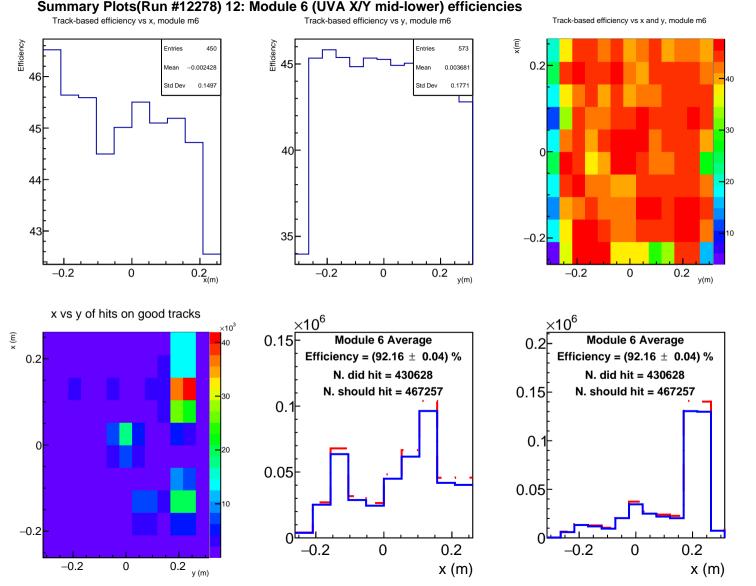


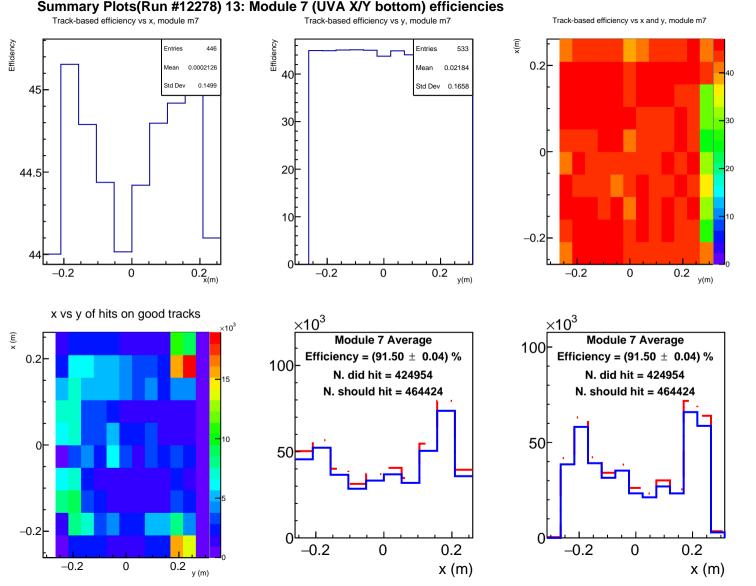












track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x Ê efficiency Entries 1274 Entries Mean -0.01735 -0.001897 0.5 0.43 Std Dev Std Dev 0.1224 42 40 30 -0.5 38 0.5 -0.1 0.1 0.1 -0.50 -0.20.2 y(m) -0.2-0.10 0 x vs y of hits on good tracks (m) $\times 10^6$ ×10⁶ ×10³ Œ, Layer 0 Average Layer 0 Average Efficiency = (81.16 \pm 0.03) % Efficiency = (81.16 \pm 0.03) % 100 0.5 N. did hit = 1951920 N. did hit = 1951920 N. should hit = 2405161 N. should hit = 2405161 0.6 0.4 0.4 0.2 0.2 -0.5 0.5 -0.2 0.1 0.2 -0.10 -0.2-0.1 0.1 0 x(m) y(m)

Summary Plots(Run #12278) 14: Layer 0 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 -0.001927 Mean 0.003657 0.5 0.4411 Std Dev 0.1253 44 20 -0.5 42 0.5 0.2 y(m) -0.1 -0.5-0.2-0.1 0.1 -0.20 0.1 0 0 x vs y of hits on good tracks (m) $\times 10^6$ $\times 10^6$ ×10³ Œ, Layer 1 Average Layer 1 Average 0.6 Efficiency = (89.97 \pm 0.02) % Efficiency = (89.97 \pm 0.02) % 100 N. did hit = 2148220 0.5 N. did hit = 2148220 N. should hit = 2387726 N. should hit = 2387726 0.6 0.4 0.4 0.2 0.2 -0.5 0.5 0.1 0.2 -0.50 -0.2-0.10.1 0 x(m) y(m)

Summary Plots(Run #12278) 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 Mean -0.005853 0.006674 48 0.5 0.4404 Std Dev Std Dev 0.1227 46.4 46 46.2 46 -0.50.5 -0.1 0.2 y(m) -0.1 -0.50 -0.20 0.1 -0.20 0.1 x(m) x vs y of hits on good tracks (m) $\times 10^6$ $\times 10^6$ ×10³ Ē Layer 2 Average Layer 2 Average Efficiency = (94.07 \pm 0.02) % Efficiency = (94.07 \pm 0.02) % 0.6 0.5 N. did hit = 2262572 0.6 N. did hit = 2262572 N. should hit = 2405251 N. should hit = 2405251 100 0.4 0.4 0.2 0.2 -0.50.5 0.1 0.2 0 -0.2-0.1 0 0.1 x(m) y(m)

Summary Plots(Run #12278) 16: Layer 2 efficiencies

Summary Plots(Run #12278) 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 efficiency Entries 1253 Entries 45 Mean -0.007417 Mean 0.006893 0.5 0.437 Std Dev Std Dev 0.1247 43 40 42 -0.541 35 -0.2 -0.1 -0.1 -0.50.5 0 0.1 -0.20 0.1 0 x(m) 0.8F x vs y of hits on good tracks (m) $\times 10^6$ ×10³ Œ, Layer 3 Average Layer 3 Average Efficiency = (87.04 \pm 0.02) % Efficiency = (87.04 \pm 0.02) % 0.6 0.5 N. did hit = 2075957 N. did hit = 2075957 100 0.6 N. should hit = 2384984 N. should hit = 2384984 0.4 0.4 0.2 0.2 -0.5 0.5 0.1 0.2 -0.2 -0.10 -0.2-0.10 0.1 x(m) y(m)

Summary Plots(Run #12278) 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 (m)× Entries -0.006648 0.001278 0.5985 Std Dev 0.1818 0.5 40 35 42 -0.530 -0.5 0.5 -0.2 0.2 -0.2 0.2 0 0 0 x vs y of hits on good tracks (m) $\times 10^6$ $\times 10^6$ ×10³ Layer 4 Average Layer 4 Average 0.6 Efficiency = (91.13 \pm 0.02) % Efficiency = (91.13 \pm 0.02) % 0.6 80 N. did hit = 2166129 N. did hit = 2166129 0.5 N. should hit = 2377093 N. should hit = 2377093 0.4 0.4 0.2 0.2 -0.50.2 -0.2 0.5 0 -0.20.2 0 x(m) y(m) y(m)

Summary Plots(Run #12278) 19: Module average efficiencies

