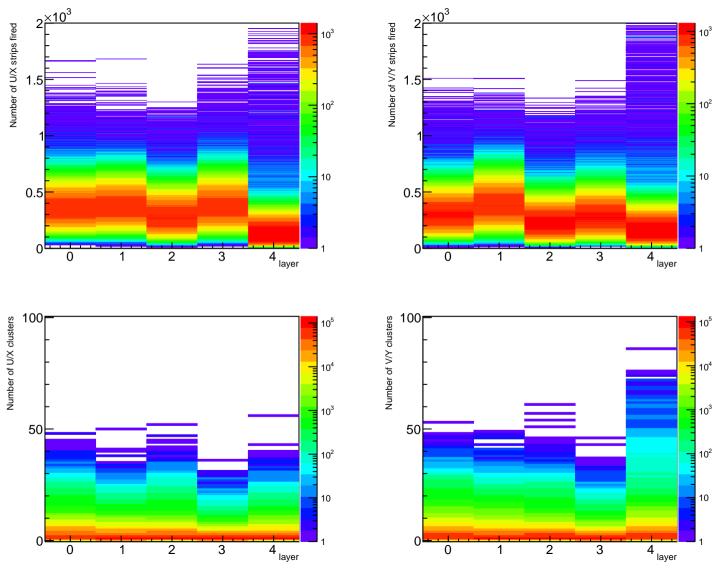
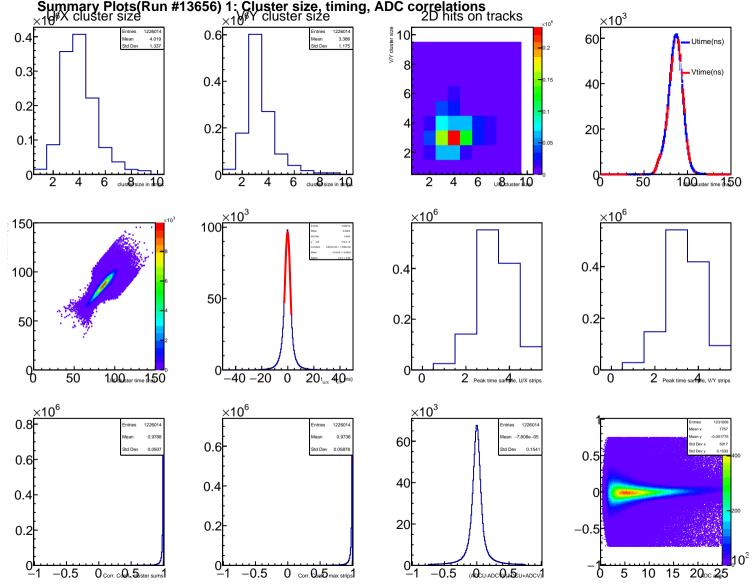
Summary Plots(Run #13656) 0: Strip and cluster multiplicities





Summary Plots(Run #13656) 2: Strip and cluster ADC distributions and correlations $\times 10^3$ $\times 10^3$ $\times 10^3$ $\times 10^3$ 10 8012 ADC cl20sum (U/X stri30 2U/X max str3 max sample Max strip 400sum (U/X strip1) 510 Std Dev Max strip ADO sum (V/Y strip1)5 ADC cl20sum (V/Y stri30 2 V/Y max st 3 max sample 2 Max 4 uster-summ 6 V/Y sampl 8 10 $\times 10^3$ Std Dev x Std Dev y ₹20 10 AD 20 Ster sum (U.3)0 2x strip max3ample (U/A Max strip ADC (U/X)

Summary Plots(Run #13656) 3: Tracking statistics

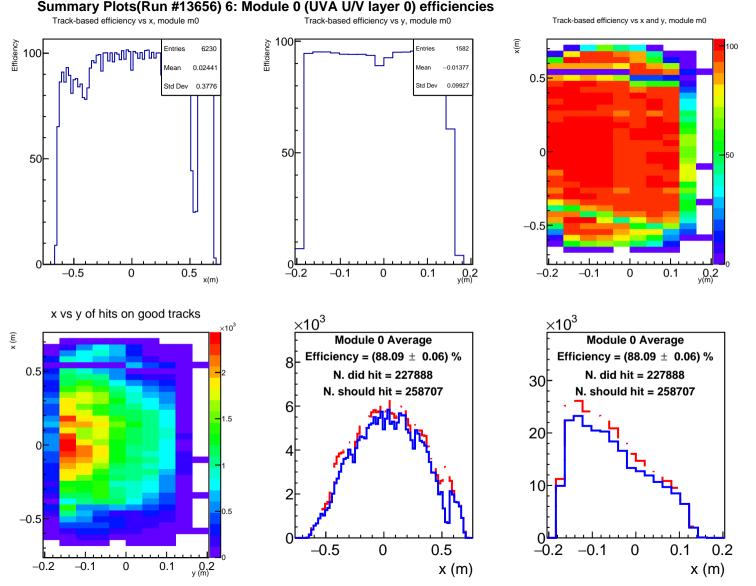
×10⁶

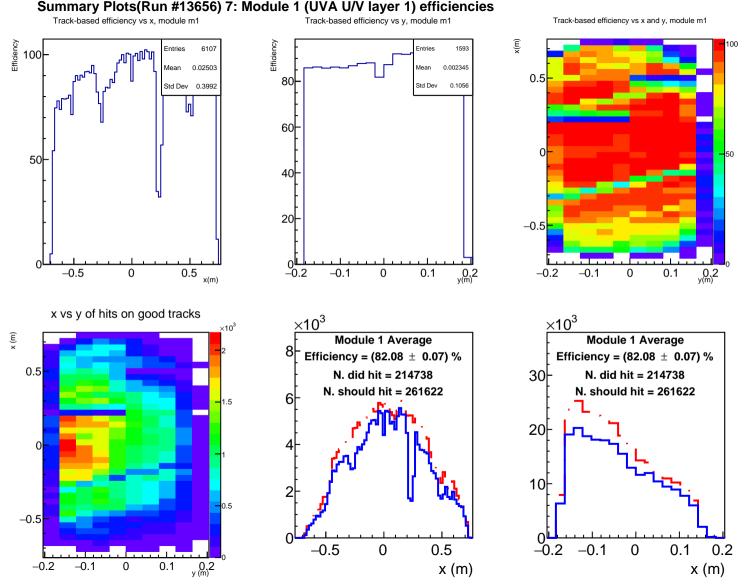
Entries 278391 0.15 Entries 277821 Entries 277821 10⁵ Mean 1.003 Mean 4.413 Mean 3.745 10^{4} Std Dev 0.05952 Std Dev 0.6909 Std Dev 5.615 10^{4} 0.1 10³ 10³ 10² 0.05 10 10^{2} 10 20 30 track chi2/ndr Best track ×10³ $\times 10^3$ 277821 Entries Entries 0.04667 Mean -0.05424 Std Dev 0.3077 Std Dev 0.08052 0.5 -0.5**Q**₂**5**_{rack X(z=0)}**1**_m -0.2 0.2 _{y(m)} -0.5 -0.20 Best 0ac2Y(z=0), m 0 0 Best track <u>×10</u>³ $\times 10^3$ dx/dz Entries 277821 Entries -0.06161 -0.008145 Mean Mean Std Dev 0.09985 Std Dev 0.0336 0.2 -0.2-0.050.05 track dy 0.1 -0.20.2st track dx0z 4 0.05

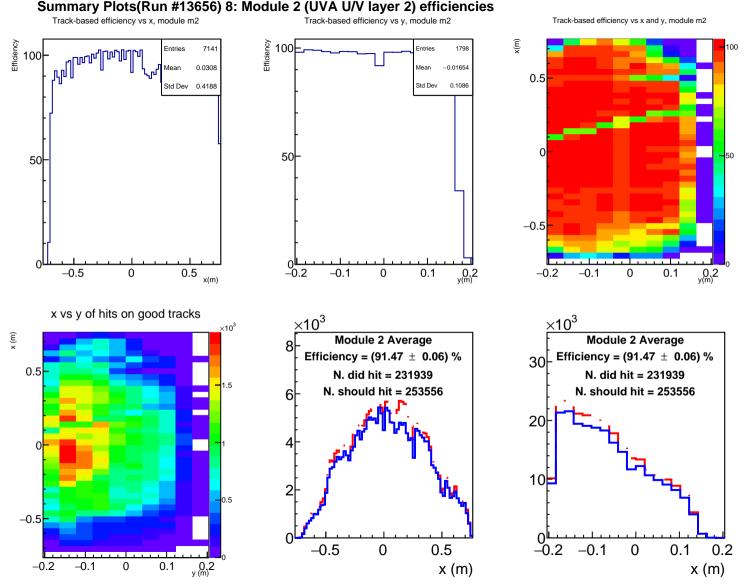
Summary Plots(Run #13656) 4: Tracking residuals (inclusive)
All hits ×10³ <u>×10</u>⁻³ ×10⁻³ Track u/x incl. residuals (m) Track u/x incl. residuals (m) 80 0.0002157 1535 / 9 60 20 0 1 2 Track u/x incl. residuals (m) 3 4 layer 2 6 module All hits <u>×10</u>⁻³ ×10³ Track v/y incl. residuals (m) Track v/y incl. residuals (m) 80 60 40 20 2 _1 2 3 4 layer 6 module

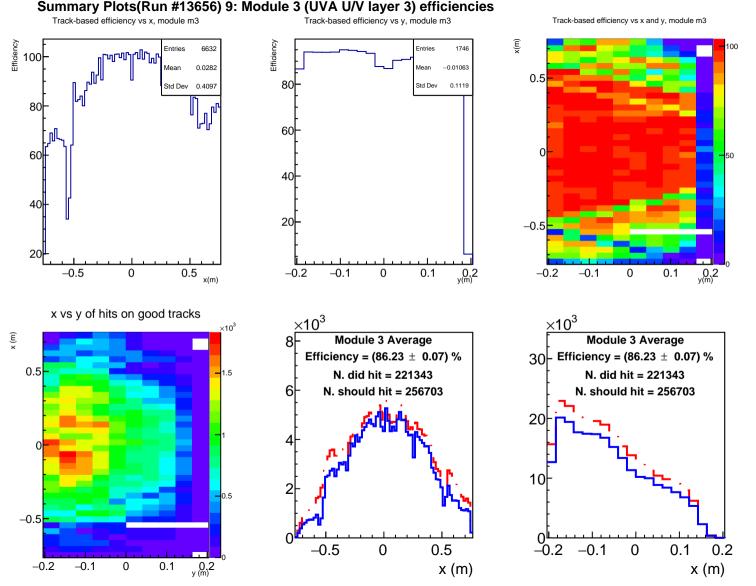
Summary Plots(Run #13656) 5: Tracking residuals (exclusive)
All hits ×10³ ×10⁻³ ×10⁻³ Track u/x excl. residuals (m) Track u/x excl. residuals (m) 337.2 / 22 30 20 10 2 6 0 1 2 Track u/x excl. residuals (m) 2 3 4 layer 0 4 module All hits ×10⁻³ ×10⁻³ ×10³ Track v/y excl. residuals (m) Track v/y excl. residuals (m) 30 10 20 10 -2 0 1 2 Track v/y excl. residuals (m) 2 3 6 0 2 4 layer

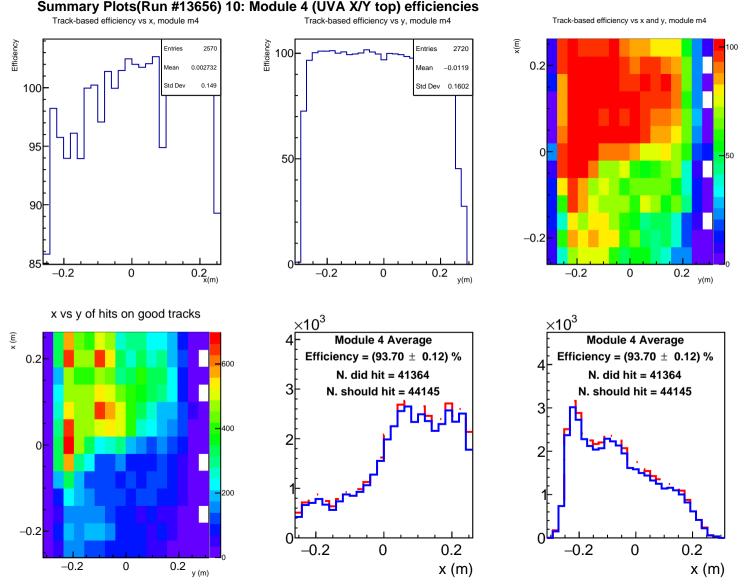
module

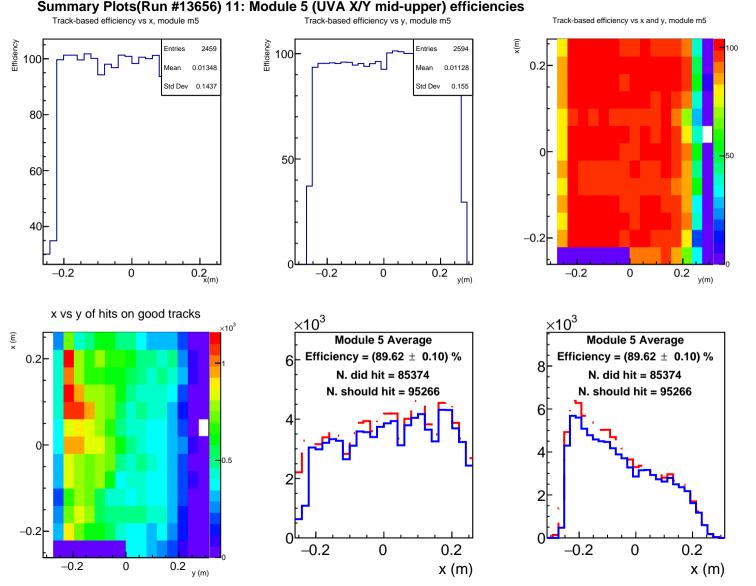


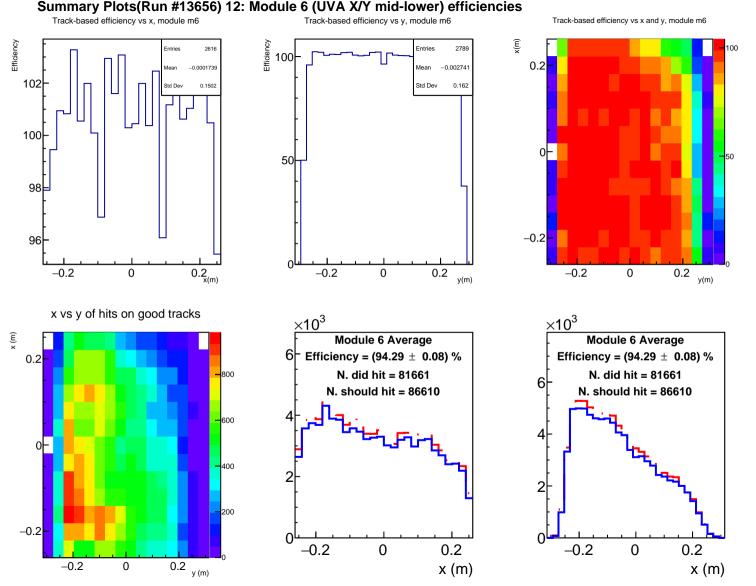


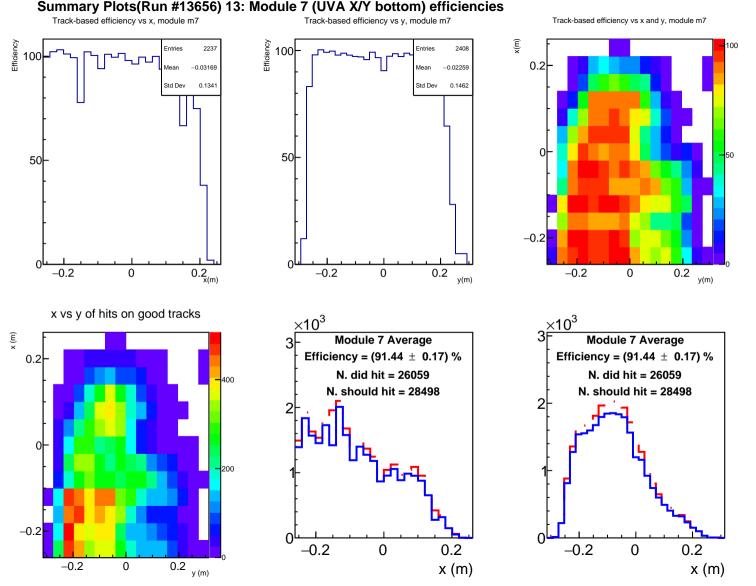












track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x 100 efficiency Ē Entries ^{ԻՂ</sub>իևԹԱյմՐՈւյրթա} 100 0.02296 Mean -0.0175 Std Dev 0.3772 Std Dev 0.09977 50 50 -0.50.2 -0.2 -0.1 -0.1 0.1 -0.50.5 0.1 -0.20 0 0 x vs y of hits on good tracks (m) $\times 10^3$ $\times 10^3$ ×10³ Ē Layer 0 Average Layer 0 Average $_{-}$ Efficiency = (88.09 \pm 0.06) % Efficiency = (88.09 \pm 0.06) % 0.5 N. did hit = 227888 N. did hit = 227888 30 N. should hit = 258707 N. should hit = 258707 20 10 -0.5 0.5 0.1 -0.50 -0.2-0.10 0.2 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13656) 14: Layer 0 efficiencies

Summary Plots(Run #13656) 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 Ê efficiency Entries 6083 Entries نروروا آلت 100 Mean 0.02576 Mean -0.0135 80 Std Dev 0.4006 Std Dev 0.1074 60 0 50 40 20 -0.5 _0.2 -0.1 0.1 -0.2 -0.1 -0.50.5 0.1 0 0 0 y(m) y(m) x vs y of hits on good tracks (m) $\times 10^3$ $\times 10^3$ ×10³ Ē Layer 1 Average Layer 1 Average 8 Efficiency = (82.08 \pm 0.07) % Efficiency = (82.08 \pm 0.07) % 0.5 30 N. did hit = 214738 N. did hit = 214738 1.5 N. should hit = 261622 N. should hit = 261622 20 10 -0.5 0.5 -0.2 0.1 -0.50 -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 100 Entries 100 Mean 0.02386 -0.01375 Std Dev 0.1117 Std Dev 0.4191 50 50 -0.5-0.1 0.2 y(m) -0.50.5 -0.2 0.1 -0.2-0.10 0 0 0.1 x(m) x vs y of hits on good tracks (m) <u>×10</u>³ $\times 10^3$ ×10³ Ē Layer 2 Average Layer 2 Average Efficiency = (91.47 \pm 0.06) % Efficiency = (91.47 \pm 0.06) % 0.5 N. did hit = 231939 N. did hit = 231939 1.5 N. should hit = 253556 N. should hit = 253556 10 -0.50.5 0.1 0.2 -0.50 0 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13656) 16: Layer 2 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 Entries ևույլոյ ևլիրու 100 Mean 0.01799 -0.009504 80 Std Dev 0.4088 Std Dev 0.1151 80 60 60 40 20 -0.5 -0.1 -0.50.5 -0.2 -0.1 0.1 0.2-0.20.1 0 0 x(m) x vs y of hits on good tracks (m) <u>×10</u>³ $\times 10^3$ ×10³ Ē Layer 3 Average Layer 3 Average Efficiency = (86.23 \pm 0.07) % Efficiency = (86.23 \pm 0.07) % 0.5 1.5 N. did hit = 221343 N. did hit = 221343 N. should hit = 256703 N. should hit = 256703 6 10 -0.5 0.5 0.1 0.2 -0.50 -0.2 -0.10 -0.2-0.10 0.1 x(m) y(m)

Summary Plots(Run #13656) 17: Layer 3 efficiencies

Summary Plots(Run #13656) 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 100 -0.02569 0.0006182 0.5753 Std Dev 0.1639 0.5 50 50 0.5 0.2 -0.2 0.2 -0.5-0.20 0 0 x vs y of hits on good tracks (m) $\times 10^3$ $\times 10^3$ ×10³ Layer 4 Average Layer 4 Average _ Efficiency = (92.12 \pm 0.05) % Efficiency = (92.12 \pm 0.05) % 20 N. did hit = 234458 N. did hit = 234458 0.5 N. should hit = 254519 N. should hit = 254519 15 10 5 -0.5 -0.5 0.5 -0.2 0.2 0 0 -0.20.2 x(m) y(m) y(m)

Summary Plots(Run #13656) 19: Module average efficiencies

