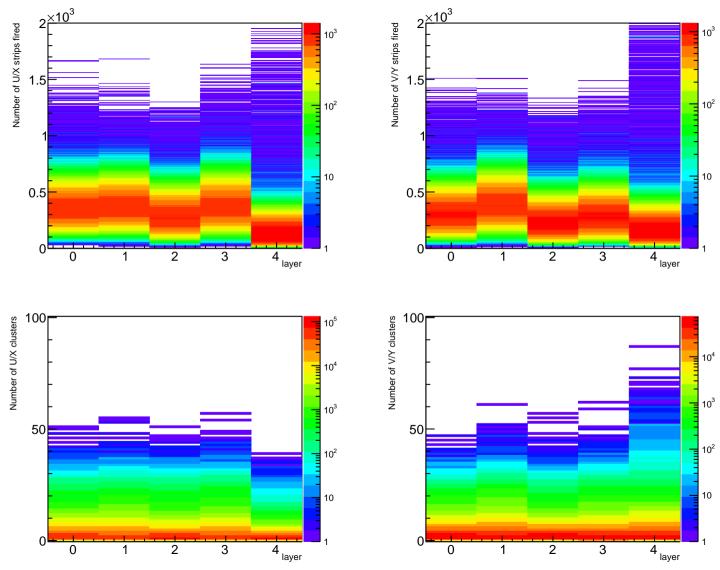
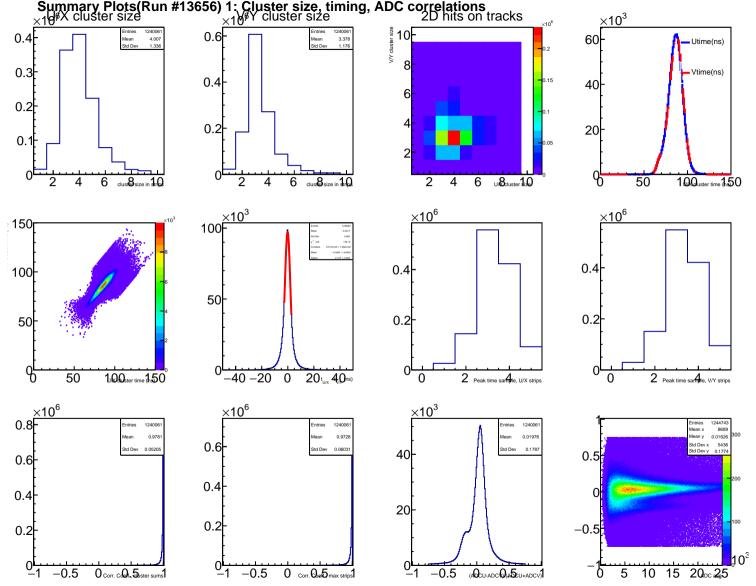
Summary Plots(Run #13656) 0: Strip and cluster multiplicities





Summary Plots(Run #13656) 2: Strip and cluster ADC distributions and correlations $\times 10^3$ $\times 10^3$ 4148 9171 Std Dev 0.5 2U/X max str3 max sample Max strip 100sum (U/X strip1)510 ADC cl210sum (U/X stri330 $\times 10^3$ $\times 10^3$ Std Dev 0.5 0.5 Max strip 100sum (V/Y strip1)5ADC cl20sum (V/Y stri30 2 V/Y max st 3 max sample 2 Max 4 uster-summ 6 V/Y sample 10 $\times 10^3$ 1093 4406 Mean y 623.7 Std Dev x Std Dev y Std Dev x ₹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 279929 0.15 Entries 279352 Entries 279352 10⁵ Mean 1.002 Mean 4.439 Mean 3.771 Std Dev 0.0545 Std Dev 0.6795 10^{4} Std Dev 5.651 10^{4} 0.1 10³ 10³ 10² 0.05 10^{2} 10 10 20 30 track chi2/ndr Best track ×10³ ×10³ Entries 279352 279352 Entries 0.04597 -0.0542 Std Dev 0.3094 Std Dev 0.08048 0.5 100 -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 279352 Entries -0.06191 -0.008116 Mean Mean 0.1005 Std Dev 0.03359 Std Dev 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>×10⁻³</u> <u>×10⁻³</u> Track u/x incl. residuals (m) Track u/x incl. residuals (m) 80 1365 / 9 60 20 0 1 2 Track u/x incl. residuals (m) 3 4 layer 2 6 module All hits <u>×10</u>⁻³ 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) 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 ×10³ ×10⁻³ Track v/y excl. residuals (m) Track v/y excl. residuals (m) 30 20 10

3

4 layer

2

0

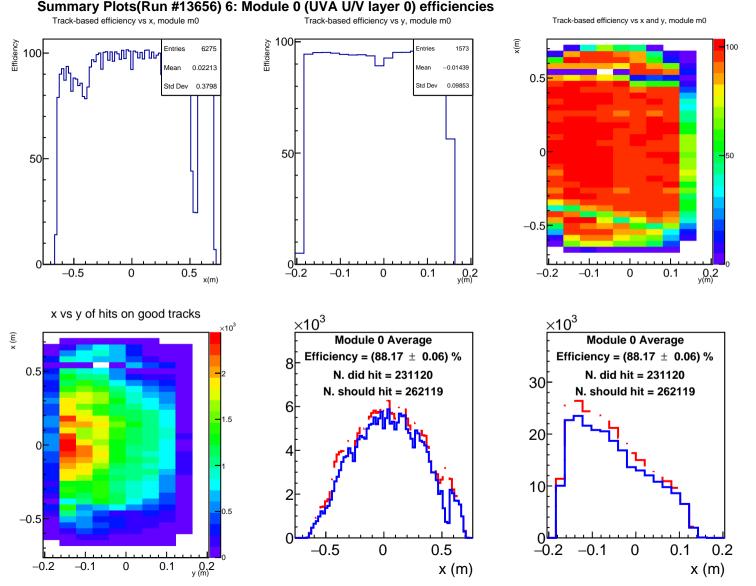
2

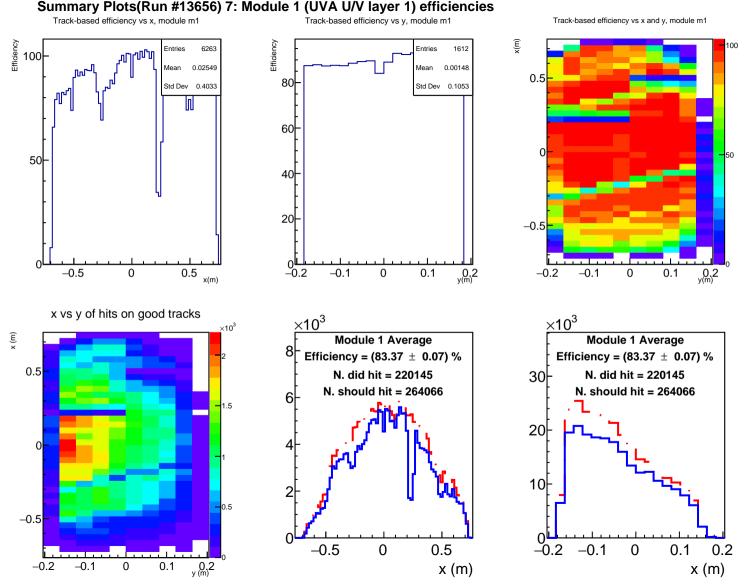
6

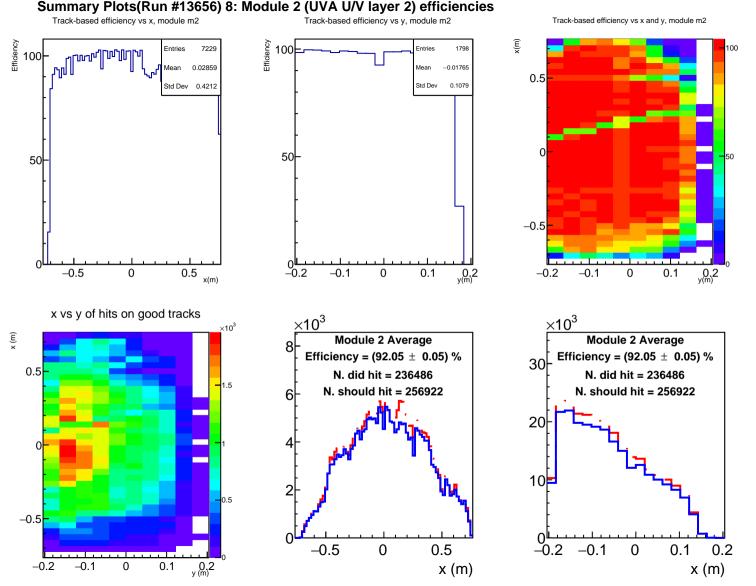
module

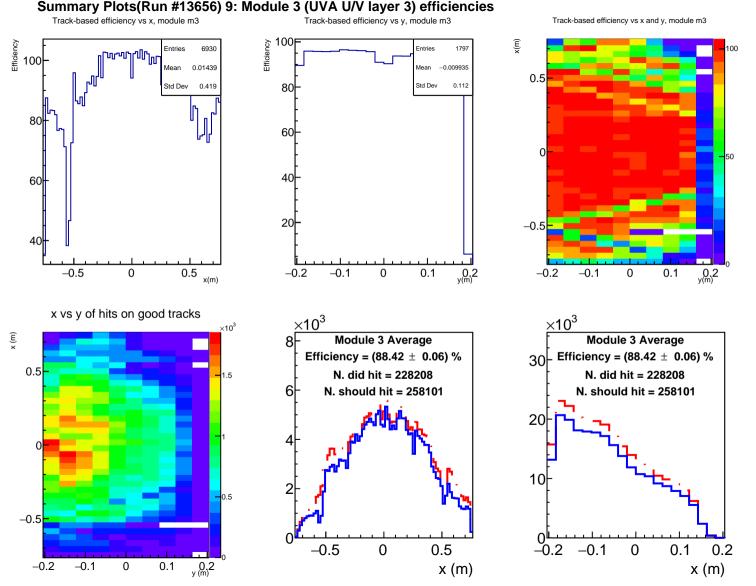
-2

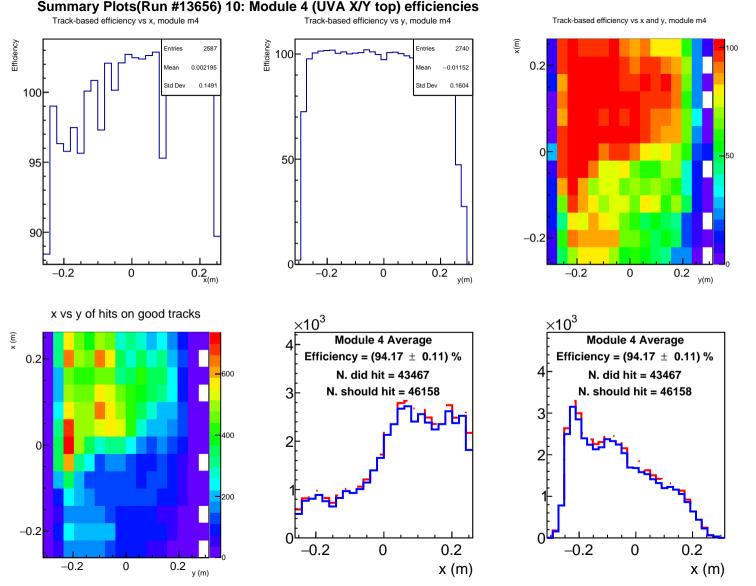
0 1 2 Track v/y excl. residuals (m)

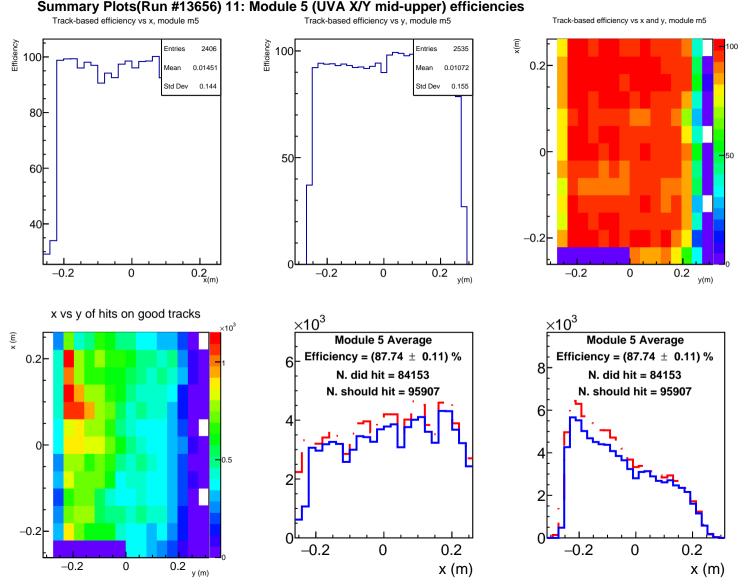


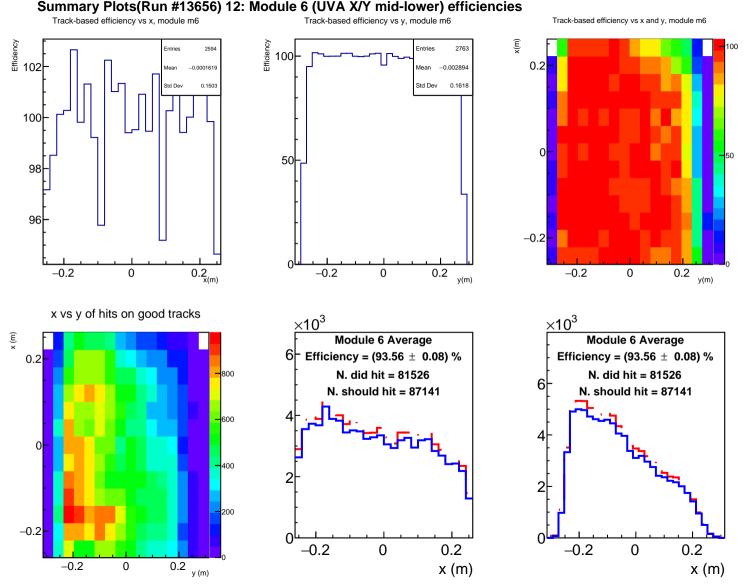


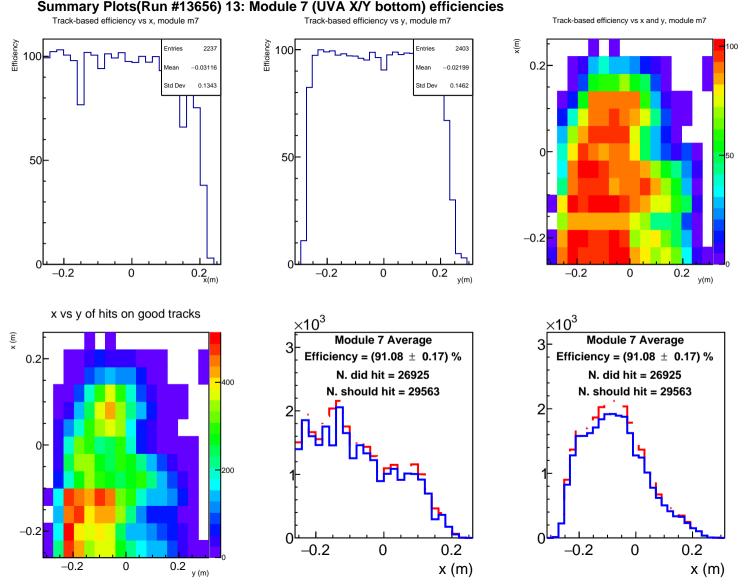












track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x 100 efficiency Ê Entries ^{ԻՂ}^իՄԻՄՆՄԻՄՄԱ 100 0.02096 -0.01799 Std Dev 0.3789 Std Dev 0.09936 50 50 -0.50.2 -0.2 -0.1 -0.1 0.1 -0.50.5 0.1 -0.20 0 0 x vs y of hits on good tracks (m) $\times 10^3$ $\times 10^3$ ×10³ Ē Layer 0 Average Layer 0 Average . Efficiency = (88.17 \pm 0.06) % Efficiency = (88.17 \pm 0.06) % 0.5 N. did hit = 231120 N. did hit = 231120 30 N. should hit = 262119 N. should hit = 262119 1.5 20 10 -0.50 0.5 0.1 -0.5-0.2 -0.10 0.2 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13656) 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 Ê efficiency Entries 6248 Entries 100 Mean 0.02605 Mean -0.01477 80 Std Dev 0.4054 Std Dev 0.1068 60 50 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 Efficiency = (83.37 \pm 0.07) % 8 Efficiency = (83.37 \pm 0.07) % 0.5 30-N. did hit = 220145 N. did hit = 220145 1.5 N. should hit = 264066 N. should hit = 264066 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)

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 100 Entries 100 0.02072 -0.01428 Std Dev 0.4219 Std Dev 0.1113 50 50 -0.5-0.1 -0.50.5 -0.2 0.1 -0.2-0.10.1 0 0 0 x(m) x vs y of hits on good tracks (m) $\times 10^3$ $\times 10^3$ Ē Layer 2 Average Layer 2 Average Efficiency = (92.05 \pm 0.05) % Efficiency = (92.05 \pm 0.05) % 30 0.5 N. did hit = 236486 N. did hit = 236486 1.5 N. should hit = 256922 N. should hit = 256922 10 -0.5 0.5 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 efficiency 100F efficiency Ê Entries լույս իլյում 100 0.004208 -0.008354 Std Dev 0.418 Std Dev 0.1154 50 60 -0.5 -0.1 -0.1 -0.50.5 -0.2 0.1 0.2-0.20 0.1 0 x(m) x vs y of hits on good tracks (m) <u>×1</u>0³ $\times 10^3$ ×10³ Ē Layer 3 Average Layer 3 Average 30 Efficiency = (88.42 \pm 0.06) % Efficiency = (88.42 \pm 0.06) % 0.5 N. did hit = 228208 N. did hit = 228208 1.5 N. should hit = 258101 N. should hit = 258101 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 (m)× 100 -0.02654 -0.0004002 0.5776 Std Dev 0.1635 0.5 50 50 0.5 -0.2 0.2 -0.2 -0.50 0 0.2 0 x vs y of hits on good tracks (m) $\times 10^3$ $\times 10^3$ ×10³ Layer 4 Average Layer 4 Average Efficiency = (91.23 \pm 0.06) % Efficiency = (91.23 \pm 0.06) % 20 N. did hit = 236071 N. did hit = 236071 0.5 N. should hit = 258769 N. should hit = 258769 15 10 5 **-0.5**<u>−</u> -0.5 0.5 -0.20.2 0 0 -0.20 0.2 x(m) y(m) y(m)

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

