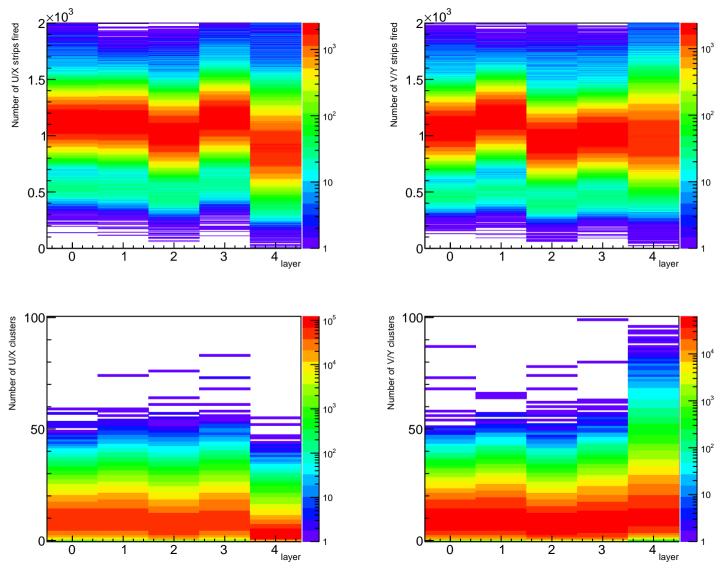
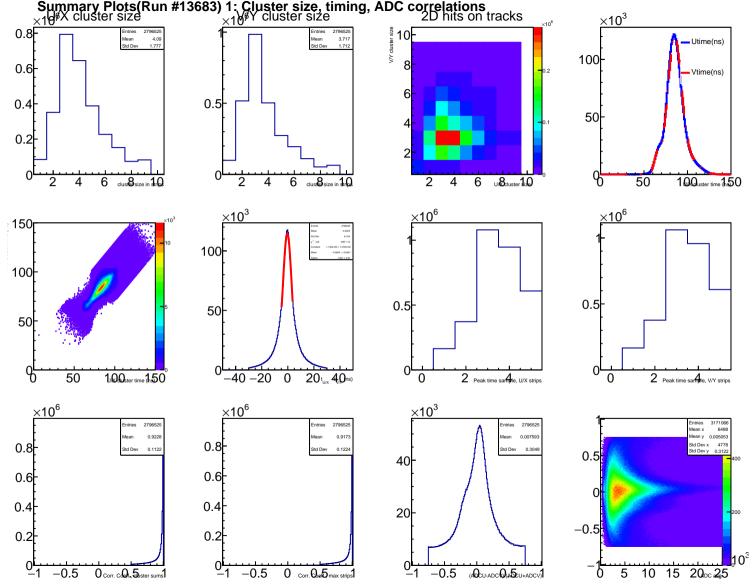
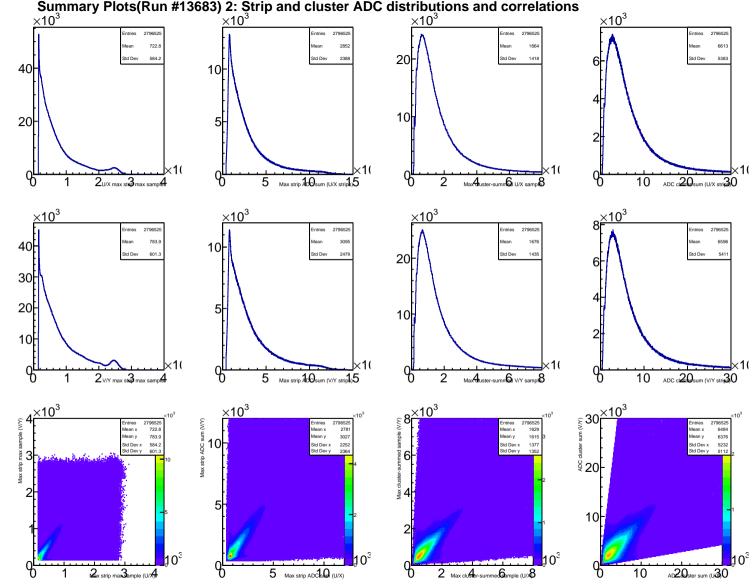
Summary Plots(Run #13683) 0: Strip and cluster multiplicities







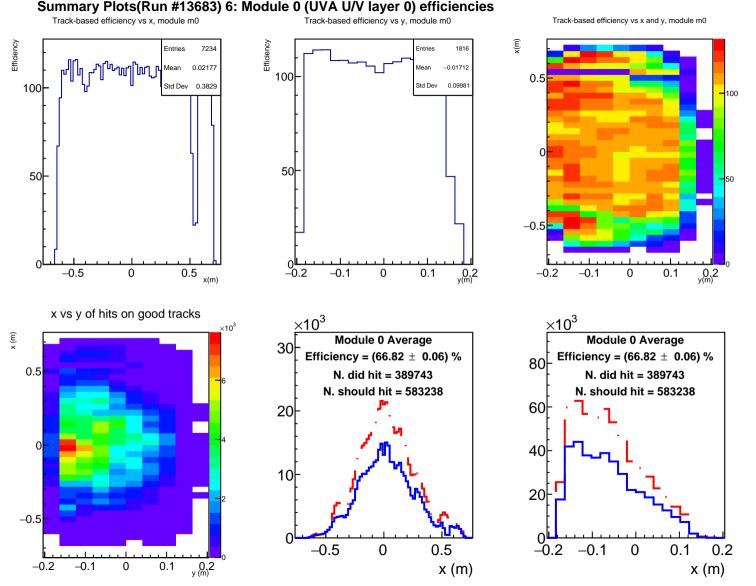
Summary Plots(Run #13683) 3: Tracking statistics ×10⁶ 10⁶₣ 786535 Entries Entries 734713 Entries 734713 0.3 Mean 1.072 Mean 3.806 Mean 8.044 10⁵ Std Dev 0.2856 0.79 Std Dev Std Dev 10.03 10^{4} 0.2 10^{4} 10³ 0.1 10^{2} 10³ 10 2 10 20 30 track chi2/ndr Best track $\times 10^3$ 15 Entries 734713 Entries 0.02479 Mean -0.06132 Std Dev 0.2422 Std Dev 0.07605 10 0.5 10 -0.5-0.2 0.2 _{y(m)} -0.5**Q**₆**5**_{rack X(z=0)}**1**_m 0 Best 0ac2Y(z=0), m -0.20 0 Best track $\times 10^3$ Entries 734713 Entries 15 -0.06505 -0.01116 Mean Std Dev 0.08174 Std Dev 0.03193 0.2 10 -0.2-0.050.05 track dy 0.1 -0.20.2st track dx0z 4 0.05

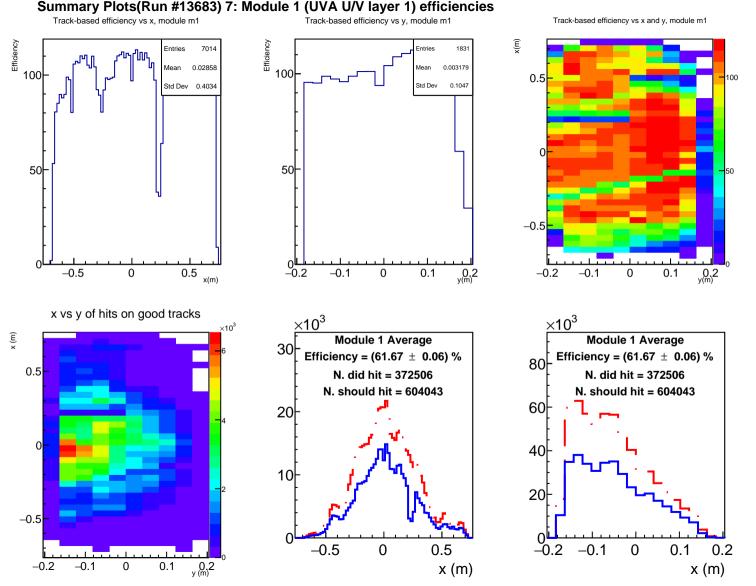
Summary Plots(Run #13683) 4: Tracking residuals (inclusive)
All hits ×10⁶ <u>×10</u>⁻³ ×10⁻³ Track u/x incl. residuals (m) Track u/x incl. residuals (m) 6131 / 7 0.15 0. 0.05 _1 0 1 2 Track u/x incl. residuals (m) 3 4 layer 2 6 module All hits <u>×10</u>⁻³ <u>×10</u>⁻³ ×10⁶ Track v/y incl. residuals (m) Track v/y incl. residuals (m) 0.15 **-**60 0. 0.05 2 0 2 3 4 layer 6

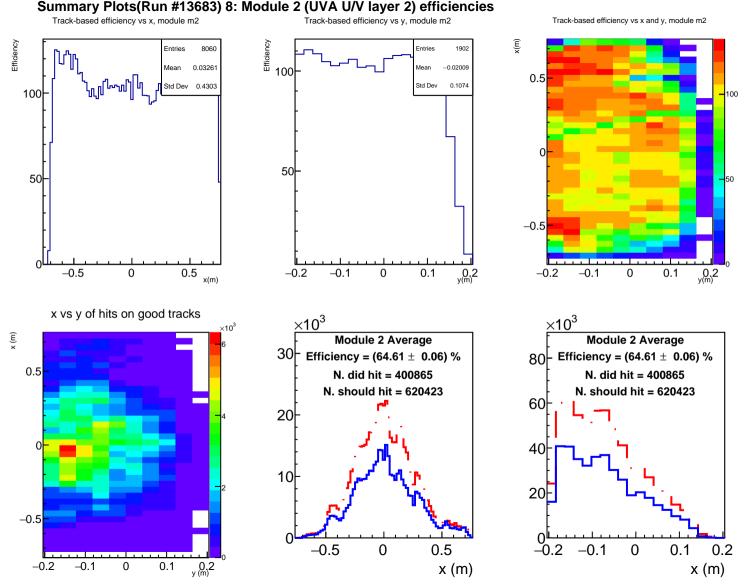
module

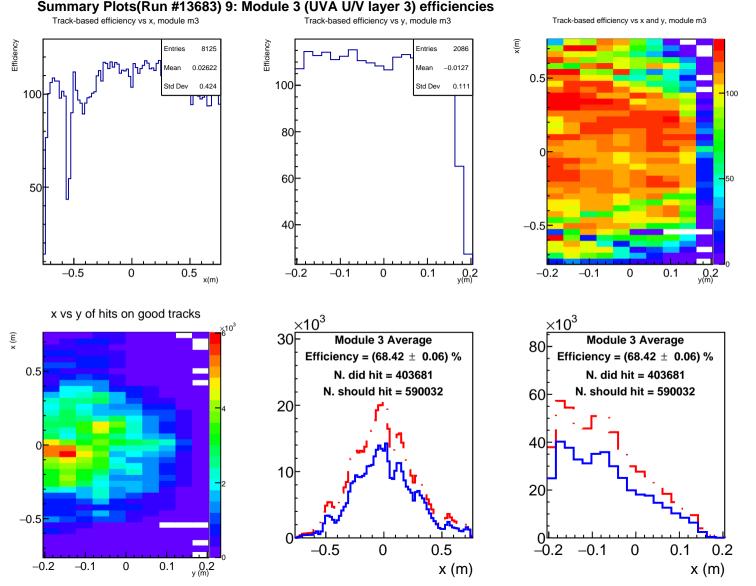
Summary Plots(Run #13683) 5: Tracking residuals (exclusive)
All hits ×10³ ×10⁻³ ×10⁻³ Track u/x excl. residuals (m) Track u/x excl. residuals (m) 40 20 0 1 2 Track u/x excl. residuals (m) 3 2 6 2 4 layer 0 4 0 module All hits 60×10³ ×10⁻³ ×10⁻³ Track v/y excl. residuals (m) Track v/y excl. residuals (m) 971.8 / 27 40 20 -2 0 1 2 Track v/y excl. residuals (m) 2 3 6 0 2 4 layer 4

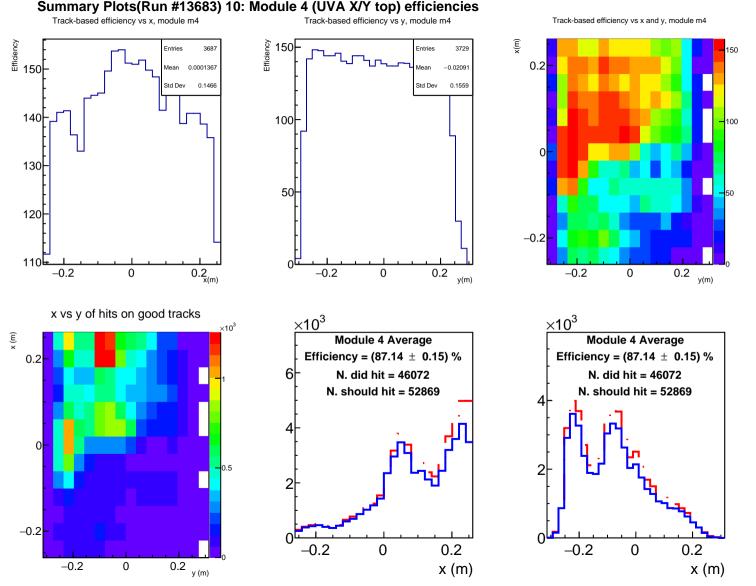
module

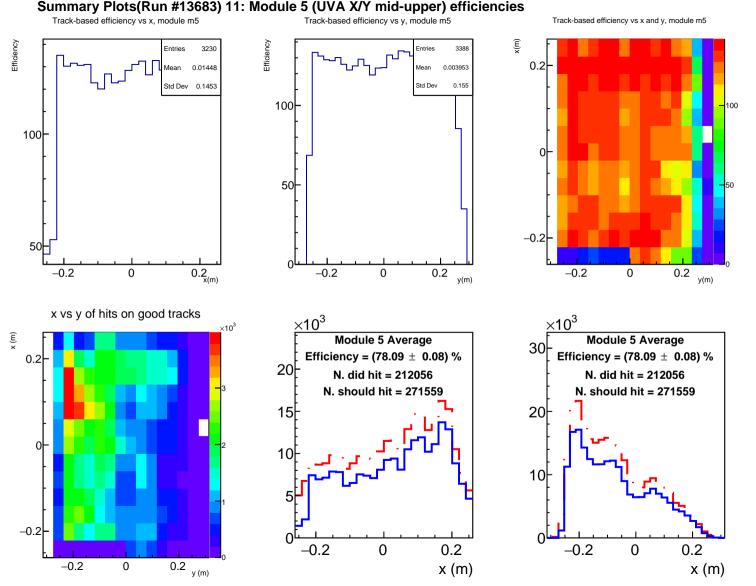


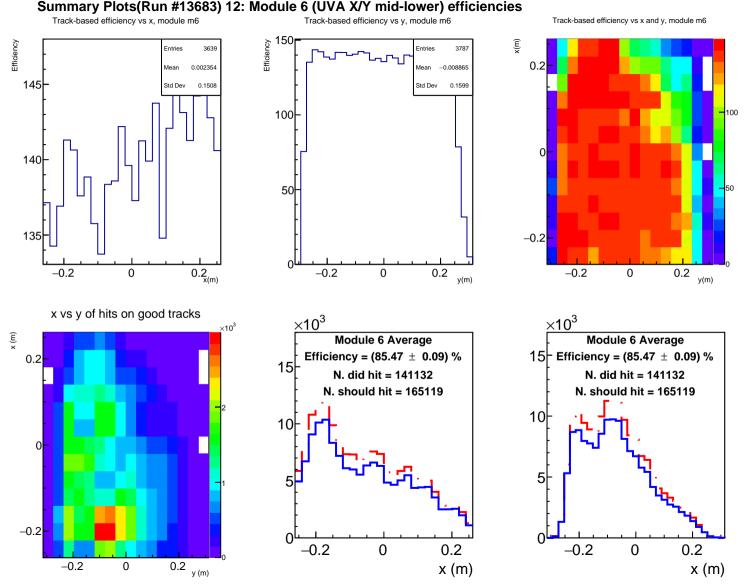


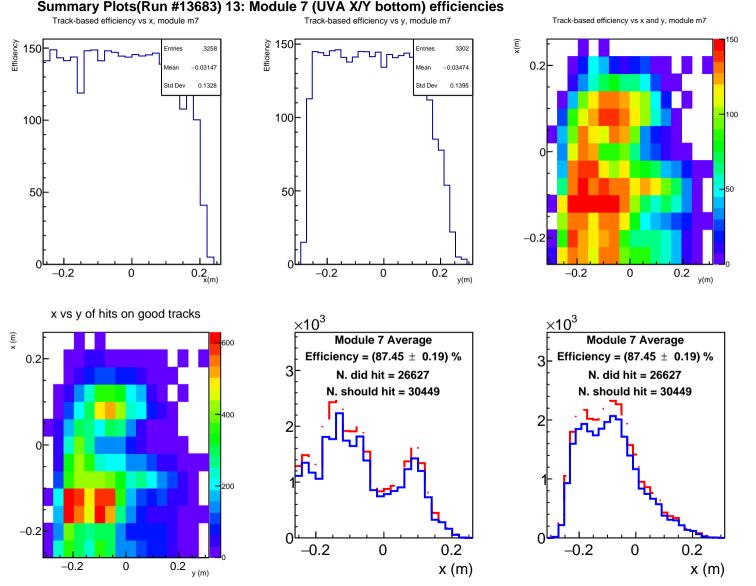












track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x efficiency Œ, efficiency Entries 0.02118 -0.01887 0.5 100 0.383 Std Dev 0.1005 100 100 50 50 -0.5 0.2 -0.2 0.5 -0.1 -0.1 0.1 -0.50.1 -0.20 0 x vs y of hits on good tracks (m) <u>×1</u>0³ $\times 10^3$ ×10³ Layer 0 Average Layer 0 Average 30 Efficiency = (66.82 \pm 0.06) % Efficiency = (66.82 \pm 0.06) % 0.5 N. did hit = 389743 N. did hit = 389743 N. should hit = 583238 N. should hit = 583238 60 20 10 20 -0.5 -0.50.5 -0.2 0 -0.10 0.1 0.2 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13683) 14: Layer 0 efficiencies

Summary Plots(Run #13683) 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 efficiency Ê Entries Entries Mean 0.02764 Mean -0.012 100 100 0.5 100 Std Dev 0.4041 Std Dev 0.1065 50 50 -0.5 _0.2 -0.1 0.1 -0.2 -0.50.5 -0.10.1 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 30 Efficiency = (61.67 \pm 0.06) % Efficiency = (61.67 \pm 0.06) % 0.5 N. did hit = 372506 N. did hit = 372506 N. should hit = 604043 N. should hit = 604043 60 20 40 10 20 -0.50.5 _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 efficiency Œ, Entries Entries Mean 0.02553 -0.01833 0.5 Std Dev 0.1099 100 100 50 50 -0.5 -0.1 -0.2 -0.1 -0.50.5 -0.2 0.1 0.20.1 0 0 0 x(m) x vs y of hits on good tracks (m) $\times 10^3$ $\times 10^3$ ×10³ Ē Layer 2 Average Layer 2 Average 30 Efficiency = (64.61 ± 0.06) % Efficiency = (64.61 \pm 0.06) % 0.5 N. did hit = 400865 N. did hit = 400865 N. should hit = 620423 N. should hit = 620423 60 20 10 20 -0.5 0.2 0.5 0.1 0.2 -0.50 0 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13683) 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 Ê efficiency Entries Entries 0.01638 -0.01242 100 Std Dev 0.4232 Std Dev 0.1136 100 50 50 -0.5-0.1 -0.1 0.2 y(m) -0.50.5 -0.20.1 -0.20 0.1 0 x(m) x vs y of hits on good tracks (m) <u>×1</u>0³ <u>×1</u>0³ $\times 10^3$ Ē Layer 3 Average Layer 3 Average 30 Efficiency = (68.42 \pm 0.06) % Efficiency = (68.42 \pm 0.06) % 0.5 N. did hit = 403681 N. did hit = 403681 60 N. should hit = 590032 N. should hit = 590032 20 40 10 20 -0.5 0.5 0.1 0.2 -0.50 -0.2 -0.10 -0.2-0.1 0.2 y(m) 0 0.1 x(m) y(m)

Summary Plots(Run #13683) 17: Layer 3 efficiencies

Summary Plots(Run #13683) 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 efficiency Ē 13758 -0.02058 -0.007749 0.583 Std Dev 0.1615 0.5 100 100 100 50 50 0.5 0.2 -0.2 -0.5-0.20 0 0.2 0 y(m) x vs y of hits on good tracks (m) ×10³ $\times 10^3$ ×10³ Layer 4 Average Layer 4 Average Efficiency = (81.90 \pm 0.05) % Efficiency = (81.90 \pm 0.05) % 20 N. did hit = 425887 N. did hit = 425887 40 0.5= N. should hit = 519996 N. should hit = 519996 15 10 20 -0.50.5 -0.2 0.2 -0.50 0 -0.20.2 0 x(m) y(m) y(m)

Summary Plots(Run #13683) 19: Module average efficiencies

