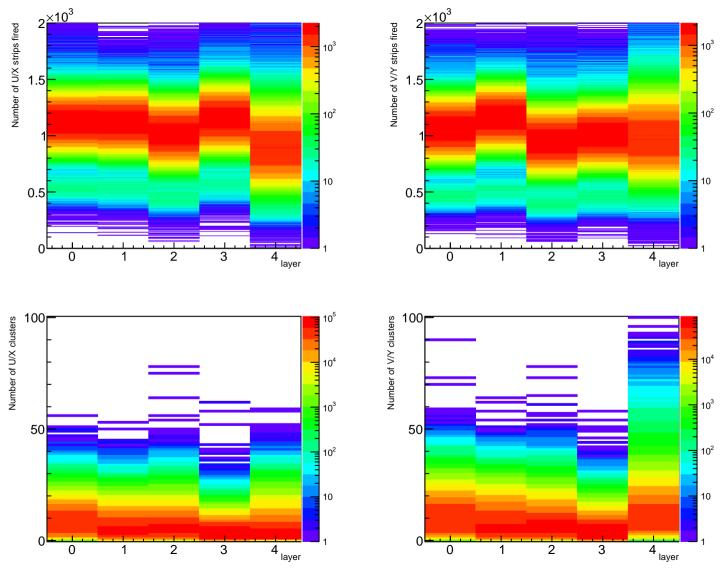
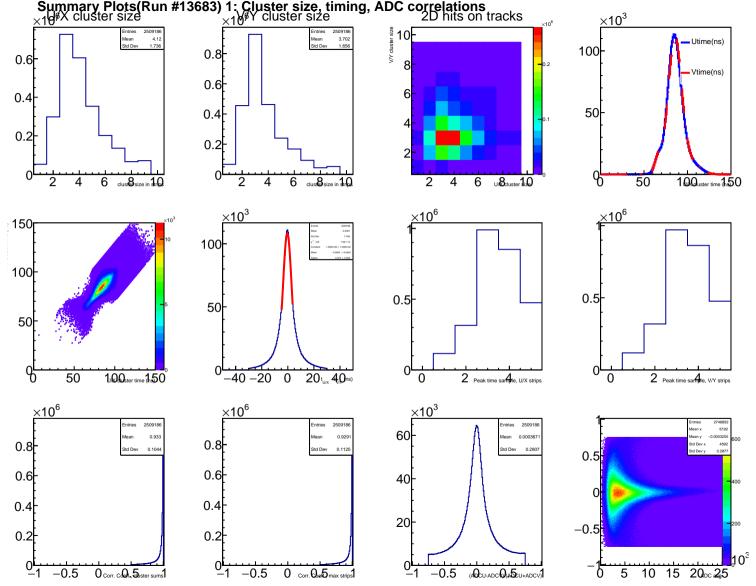
Summary Plots(Run #13683) 0: Strip and cluster multiplicities





Summary Plots(Run #13683) 2: Strip and cluster ADC distributions and correlations $\times 10^3$ $\times 10^3$ $\times 10^3$ 40H 2642 6269 10 2190 Std Dev 20 30 20 10 10 2U/X max str3 max sample Max strip ADO sum (U/X strip) 5 10 30F 730.8 Std Dev 536.8 Std Dev Std Dev Std Dev 20 20 10 10 Max4uster-summ6 V/Y sampl8 ADC cl20sum (V/Y stri30 2 V/Y max st 3 max sample 5 Max strip ADO sum (V/Y strip1)5 2 10 § 30 × 10 3 <u>×10</u>³ $\times 10^3$ 730.8 2835 Mean y Std Dev x § 20 10-2x strip max3ample (U/A AD 20 Ster sum (U.3)0 5 Max strip ADC1sQ (U/X) 10

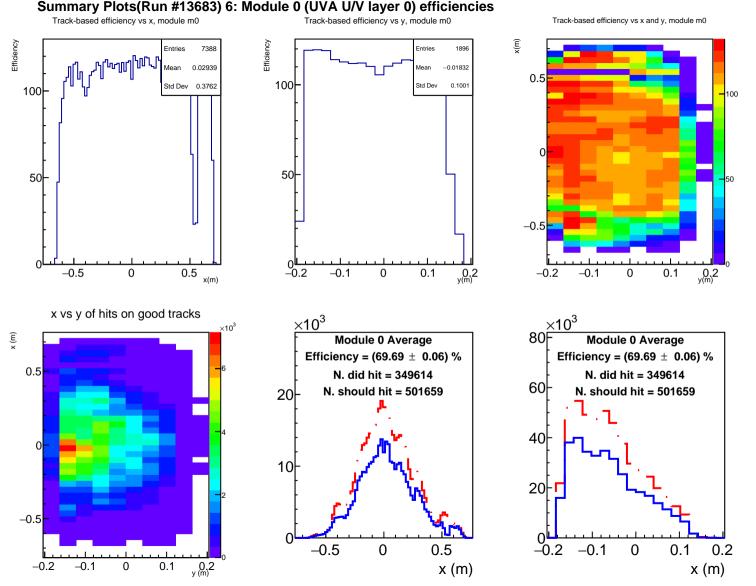
Summary Plots(Run #13683) 3: Tracking statistics ×10⁶ 10⁶₣ Entries 691647 Entries 658401 Entries 658401 Mean 1.053 Mean 3.811 Mean 7.214 10⁵ Std Dev 0.2463 Std Dev 0.7878 Std Dev 9.435 0.2 10^{4} 10^{4} 10³ 0.1 10² 10^{3} 10 ₽ 2 10 20 30track chi2/n40 5 Best track $\times 10^3$ $\times 10^3$ Entries 658401 Entries 658401 0.02435 Mean -0.06176 10 Std Dev 0.2421 Std Dev 0.07589 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 15F Best track ×10³ 658401 Entries 658401 Entries -0.0654 -0.0113 Mean Std Dev 0.08133 Std Dev 0.03181 0.2 10 -0.2-0.050.05 track dy 0.1 -0.20.2st track dx0z 4 0.05

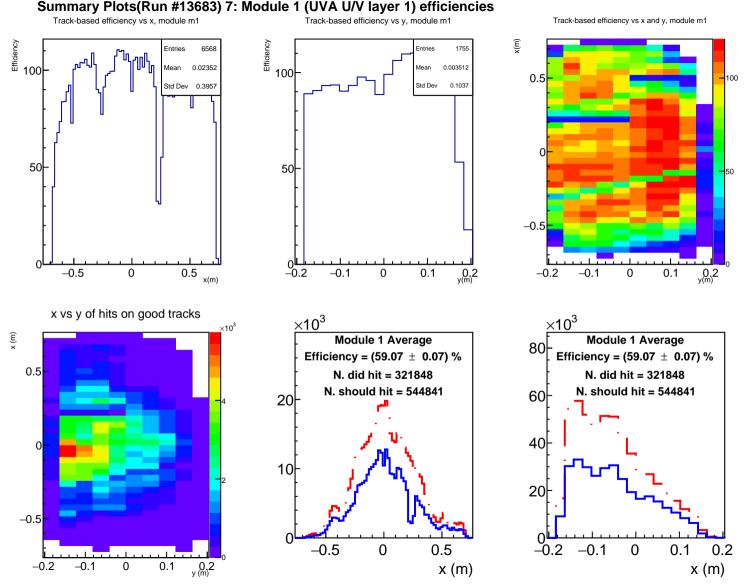
Summary Plots(Run #13683) 4: Tracking residuals (inclusive)
All hits ×10⁶ <u>×10</u>⁻³ ×10⁻³ Track u/x incl. residuals (m) Track u/x incl. residuals (m) 0.15 0.1 0.05 2 _1 0 1 2 Track u/x incl. residuals (m) 3 4 layer 6 module All hits <u>×10</u>⁻³ <u>×10</u>⁻³ ×10⁶ Track v/y incl. residuals (m) Track v/y incl. residuals (m) 0.15 0.1 0.05 2 _1 0 2 3 4 layer 6

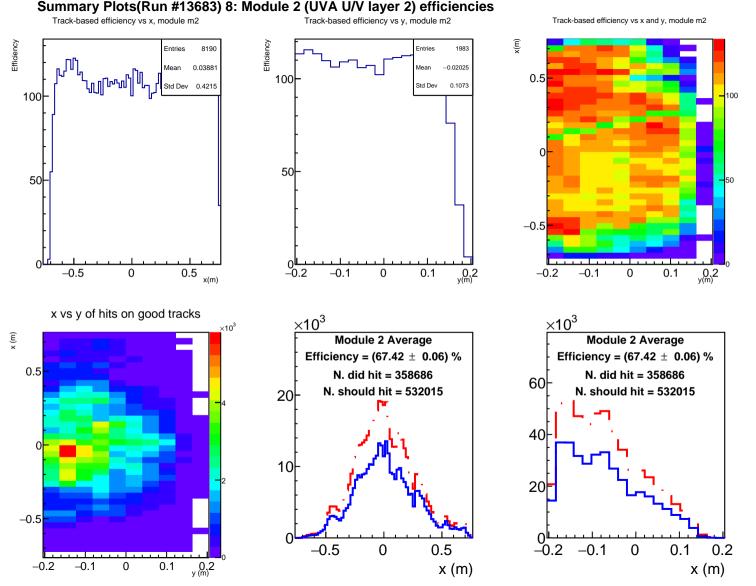
module

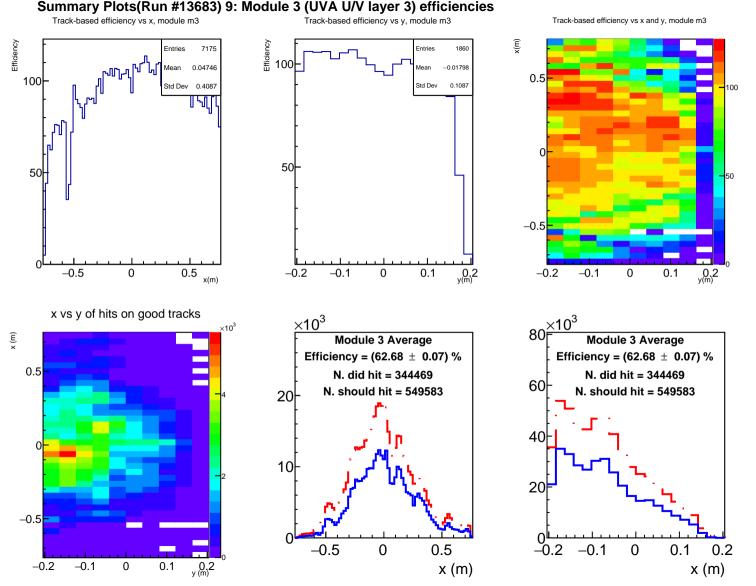
Summary Plots(Run #13683) 5: Tracking residuals (exclusive)
All hits ×10³ ×10⁻³ ×10⁻³ Track u/x excl. residuals (m) Track u/x excl. residuals (m) 678.6 / 29 40 20 -2 0 1 2 Track u/x excl. residuals (m) 3 2 6 2 4 layer 0 4 0 module All hits ×10⁻³ ×10⁻³ ×10³ Track v/y excl. residuals (m) Track v/y excl. residuals (m) 40 20 -2 0 1 2 Track v/y excl. residuals (m) 2 3 6 0 2 4 layer 4

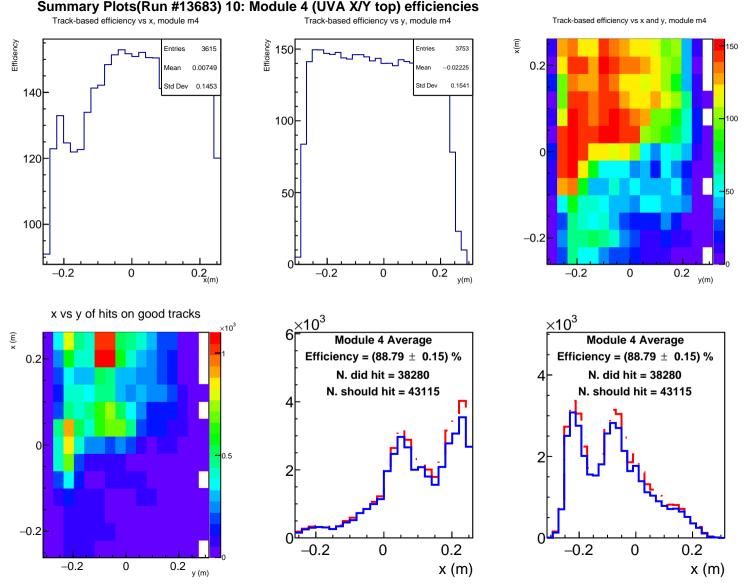
module

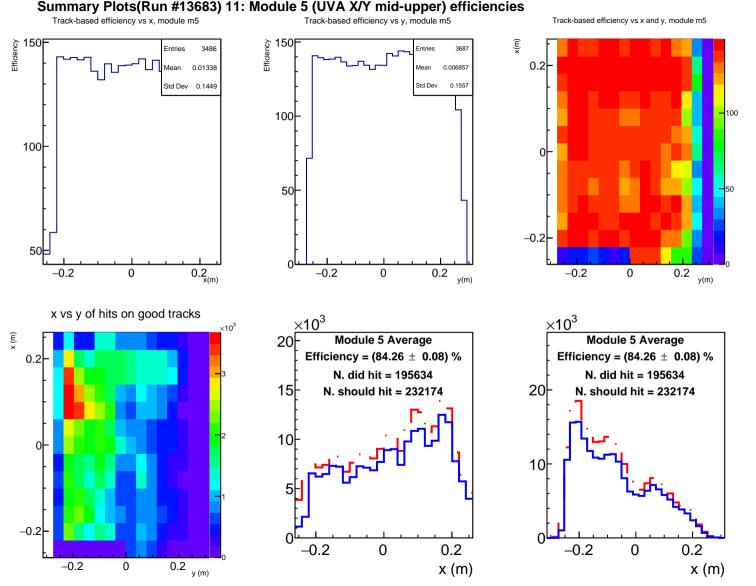


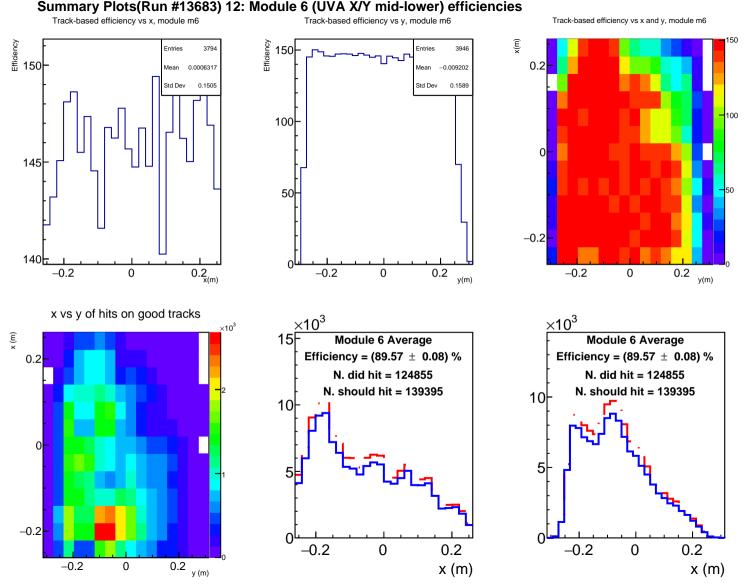


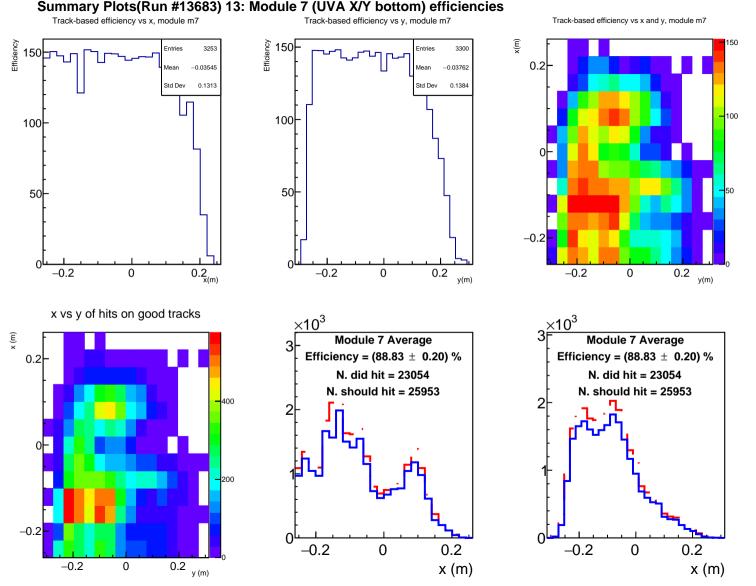












track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x efficiency Ê efficiency Entries 7340 Entries 0.02961 -0.01937 0.5 100 Std Dev 0.3762 Std Dev 0.1006 100 100 50 50 -0.50.5 -0.1 -0.1 0.1 -0.5-0.2 0.1 0.2 y(m) -0.20 0 80F ×10³ x vs y of hits on good tracks (m) <u>×10</u>³ Ē Layer 0 Average Layer 0 Average Efficiency = (69.69 \pm 0.06) % Efficiency = (69.69 \pm 0.06) % 0.5 N. did hit = 349614 N. did hit = 349614 60 N. should hit = 501659 N. should hit = 501659 20 40 10 20 -0.5-0.5-0.2 0 0.5 -0.10 0.1 0.2 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13683) 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 efficiency Ê Entries Entries Mean 0.02242 Mean -0.01052 100 100 0.5 100 Std Dev 0.3958 Std Dev 0.106 50 50 -0.5 _0.2 -0.1 0.1 -0.2 -0.1 -0.50 0.5 0.1 0 y(m) y(m) x vs y of hits on good tracks (m) <u>×10</u>³ $\times 10^3$ ×10³ Ē Layer 1 Average Layer 1 Average 80 Efficiency = (59.07 \pm 0.07) % Efficiency = (59.07 \pm 0.07) % 0.5 N. did hit = 321848 N. did hit = 321848 N. should hit = 544841 N. should hit = 544841 60 20 40 10 20 -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 #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 Œ, efficiency 8129 Entries 0.0313 -0.01822 0.5 100 Std Dev 0.1102 100 50 50 -0.5 -0.2 -0.50.5 -0.2 -0.1 0.1 0.2-0.10.1 0 0 0 x(m) 80×10³ x vs y of hits on good tracks (m) $\times 10^3$ ×10³ Ē Layer 2 Average Layer 2 Average Efficiency = (67.42 \pm 0.06) % Efficiency = $(67.42 \pm 0.06) \%$ 0.5 N. did hit = 358686 N. did hit = 358686 60 N. should hit = 532015 N. should hit = 532015 20 40 10 20 -0.5 0.2 0.2 -0.50.1 0 0.5 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 Entries 7101 Entries 100 Mean 0.03802 -0.01689 0.5 100 Std Dev 0.4077 Std Dev 0.1117 100 50 50 -0.5-0.2 -0.1 -0.50.5 0.1 -0.2-0.10.1 0.2 y(m) 0 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 = (62.68 \pm 0.07) % Efficiency = (62.68 \pm 0.07) % 0.5 N. did hit = 344469 N. did hit = 344469 60 N. should hit = 549583 N. should hit = 549583 20 10 20 -0.5 0.5 -0.2 0.1 0.2 -0.50 -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 150F (m)× Entries 14097 -0.01765 -0.005181 0.5715 Std Dev 0.1618 0.5 100 100 50 50 -0.50.5 -0.2 0.2 -0.2 -0.50 0 0.2 0 y(m) 20 × 10³ x vs y of hits on good tracks (m) $\times 10^3$ Layer 4 Average Layer 4 Average Efficiency = (86.65 \pm 0.05) % Efficiency = (86.65 \pm 0.05) % 40 N. did hit = 381823 N. did hit = 381823 15 0.5 N. should hit = 440637 N. should hit = 440637 30 10 20 10 -0.5 -0.5 0.5 -0.20.2 0 0 -0.20.2 0 x(m) y(m) y(m)

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

