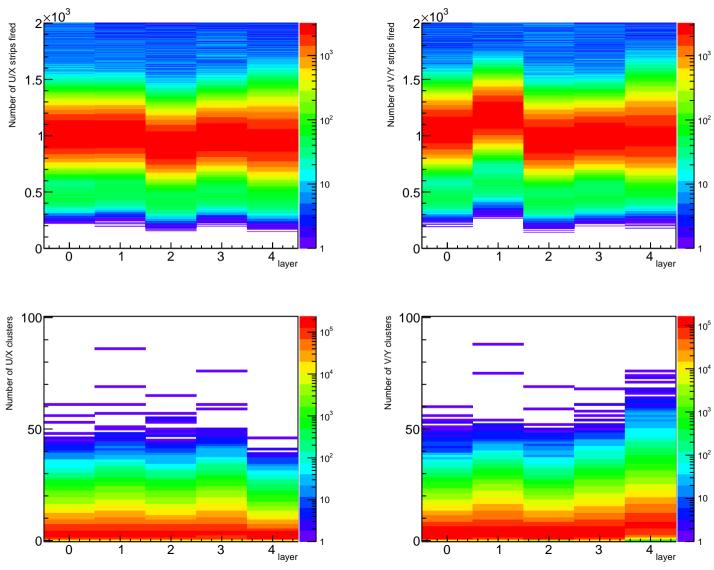
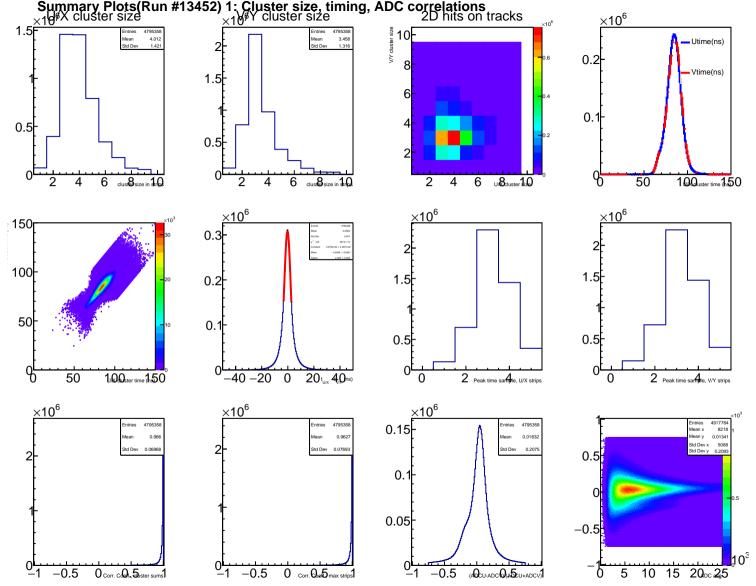
Summary Plots(Run #13452) 0: Strip and cluster multiplicities





Summary Plots(Run #13452) 2: Strip and cluster ADC distributions and correlations $\times 10^3$ $\times 10^3$ $\times 10^3$ $\times 10^3$ 30 927.4 3890 10 30 20 20 10 10 ADC cl20sum (U/X stri30 2U/X max str3 max sample Max strip 400sum (U/X strip1) 510 10F × 10³ 10 30 30 1014 8434 Std Dev Std Dev Std Dev 20 20 10 10 Max strip ADO sum (V/Y strip1)5 ADC cl20sum (V/Y stri30 2 V/Y max st 3 max sample 2 10 <u>×10</u>³ Mean y 1014 4150 Std Dev x 593.1 Std Dev x § 20 10 2x strip max3ample (U/X AD 20 Ster sum (U.3)0

Summary Plots(Run #13452) 3: Tracking statistics $\times 10^6$ 10⁶ ₽ Entries 1110506 Entries 1094218 1094218 Mean 1.016 Mean 4.382 Mean 2.565 10⁵ 10⁵ Std Dev 0.131 Std Dev 0.6879 Std Dev 5.457 0.4 10⁴ 10⁴ 10³ ₽ 0.2 10² 10³ 10 2 10 20 30 track chi2/ndr Best track $\times 10^3$ $\times 10^3$ Entries 1094218 Entries 1094218 0.07089 Mean Mean -0.08041 15 Std Dev 0.2681 Std Dev 0.07508 20 0.5 10 10 -0.5**Q**₆**5**_{rack X(z=0)}**1**_m -0.2 -0.2 0.2 _{y(m)} -0.5 0 Best 0ac2Y(z=0), m 0 0 Best track ×10³ dx/dz Entries 1094218 Entries 20 20 0.03693 -0.01592 Mean Mean Std Dev 0.07872 Std Dev 0.02628 0.2 15 15 400 10 10 -0.20.2st track dx0z 4 -0.050.05 track dy 0.1 -0.050.05 dy. 02. 1 0

Summary Plots(Run #13452) 4: Tracking residuals (inclusive)
All hits ×10⁶ <u>×10</u>⁻³ <u>×10⁻³</u> Track u/x incl. residuals (m) Track u/x incl. residuals (m) 0.4 0.15 0.3 0.2 0.05 0. _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) Frack v/y incl. residuals (m) 0.4 0.15 0.3 0.2 0.05 0. 2 _1 0 1 2 Track v/y incl. residuals (m) 0 2 3 4 layer 6

module

Summary Plots(Run #13452) 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 0.1 0.05 2 6 0 1 2 Track u/x excl. residuals (m) 2 3 4 layer 0 0 4 module All hits ×10⁻³ ×10⁻³ ×10⁶ Track v/y excl. residuals (m) Track v/y excl. residuals (m) 0.15 0. 0.05

3

4 layer

2

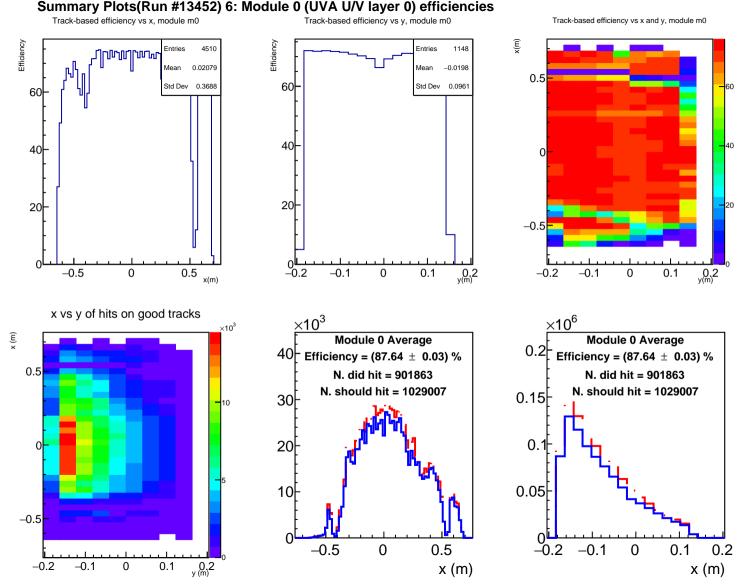
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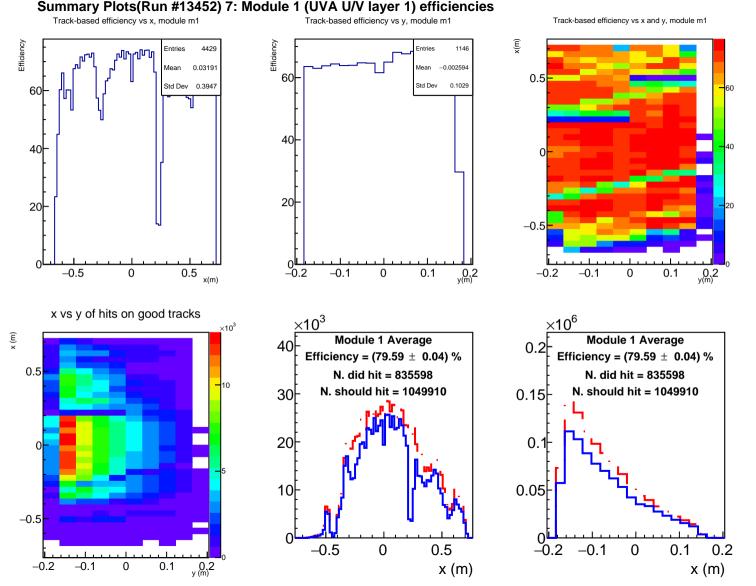
-2

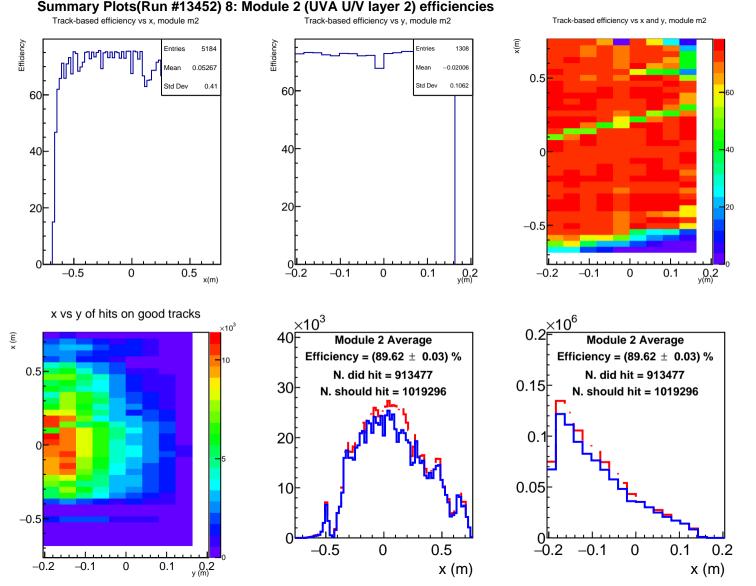
2

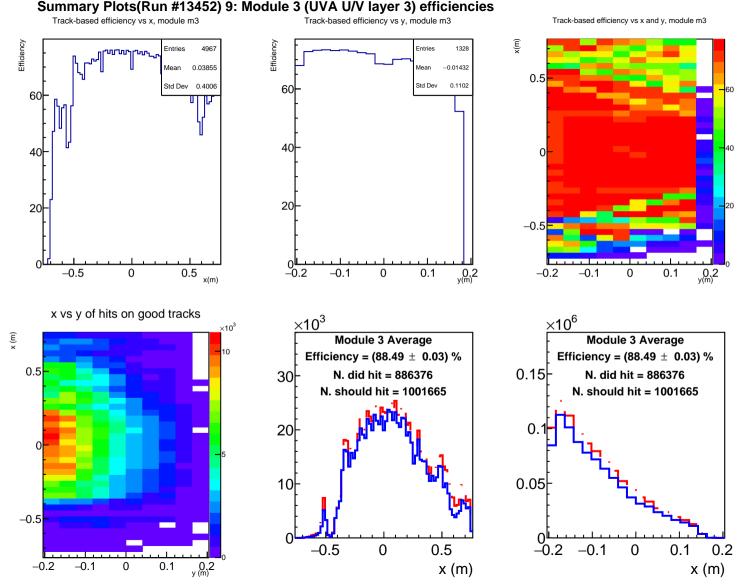
6

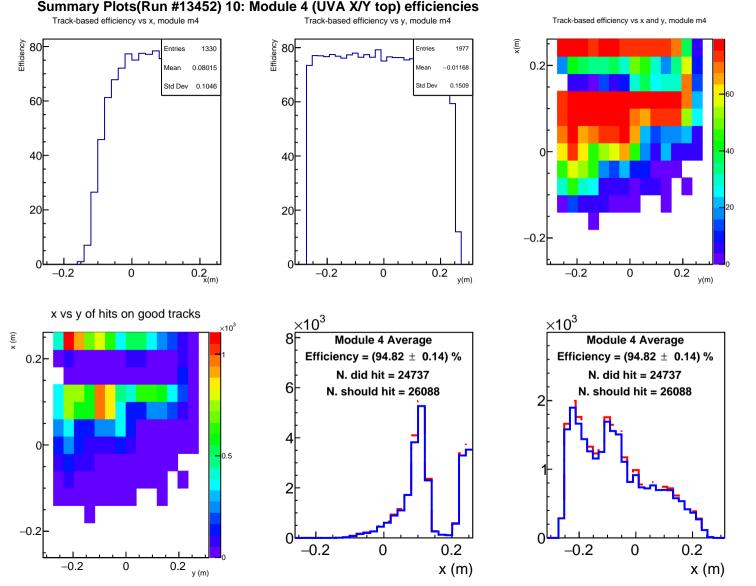
module

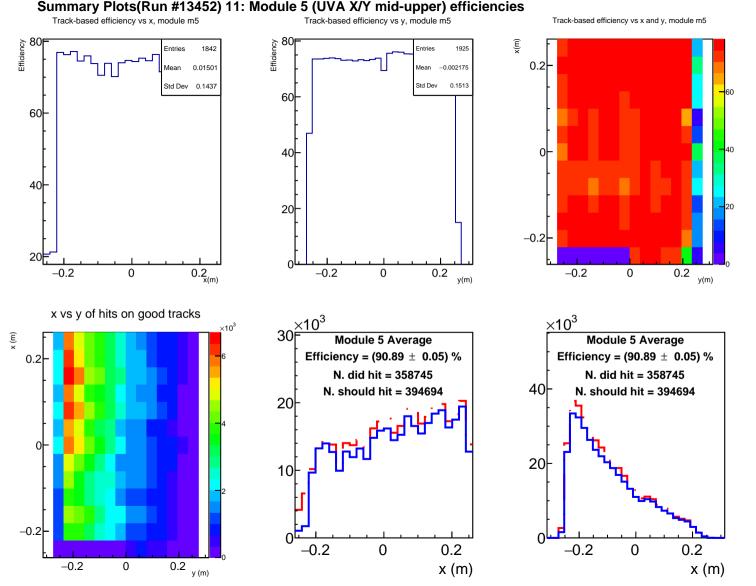


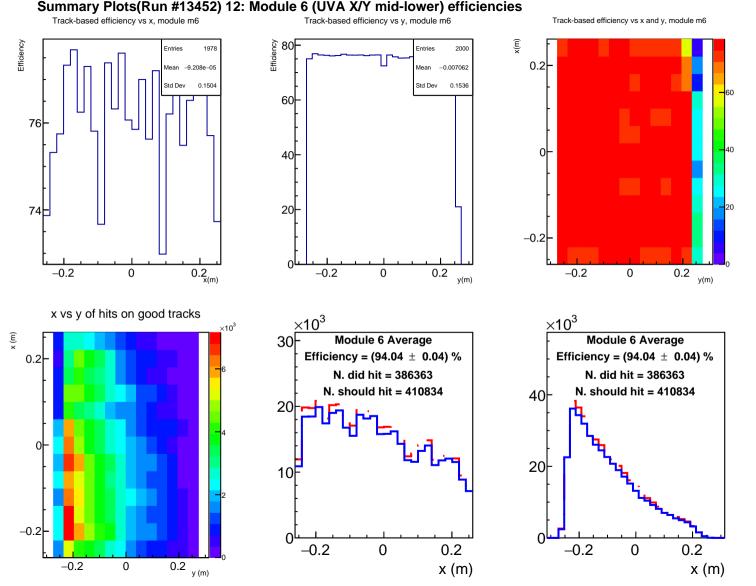


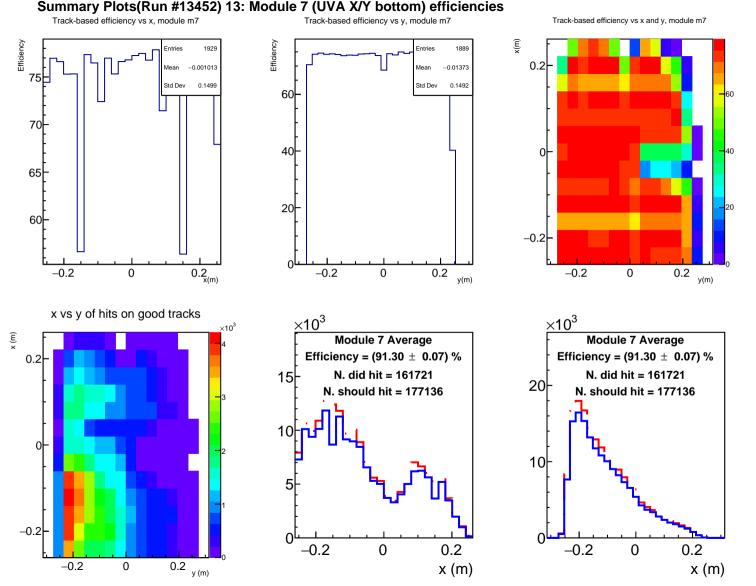












track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x efficiency Ê efficiency Entries <u>Նինլոնոնուստո</u> 0.02532 Mean -0.0202 60 0.371 Std Dev 0.09859 Std Dev **-**60 60 40 40 20 20 -0.5 0.2 -0.2 0.5 -0.1 0.1 0.1 -0.5-0.10 0 0 x(m) x vs y of hits on good tracks (m) <u>×1</u>0³ ×10⁶ ×10³ Ē Layer 0 Average Layer 0 Average 40 Efficiency = (87.64 \pm 0.03) % Efficiency = (87.64 \pm 0.03) % 0.5 N. did hit = 901863 N. did hit = 901863 N. should hit = 1029007 N. should hit = 1029007 0.15 30 0.1 20 0.05 10 -0.5-0.50 0.5 -0.2-0.10 0.1 0.2 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13452) 14: Layer 0 efficiencies

Summary Plots(Run #13452) 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 efficiency Entries Entries 0.02765 -0.01819 60 Std Dev 0.3939 Std Dev 0.1045 60 40 40 20 20 -0.5 _0.2 -0.1 0.1 -0.1 -0.50.5 -0.2 0.1 0 0 y(m) y(m) x vs y of hits on good tracks (m) ×10³ $\times 10^6$ ×10³ Layer 1 Average Layer 1 Average Efficiency = (79.59 ± 0.04) % Efficiency = (79.59 ± 0.04) % 0.5 N. did hit = 835598 N. did hit = 835598 10 0.15 N. should hit = 1049910 N. should hit = 1049910 30 0. 20 0.05 10 -0.5-0.50.5 0.1 0 -0.2 -0.10 -0.2-0.10.1 x(m) y(m) y(m)

Summary Plots(Run #13452) 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 5152 Entries <u> Պետինը, տրո</u>մեն 0.04217 -0.01734 0.5 0.4101 Std Dev 0.1104 Std Dev 60 60 40 20 20 -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) $\times 10^3$ $\times 10^6$ ×10³ Ē Layer 2 Average Layer 2 Average Efficiency = (89.62 \pm 0.03) % Efficiency = (89.62 \pm 0.03) % 10 0.5 N. did hit = 913477 N. did hit = 913477 0.15 30 N. should hit = 1019296 N. should hit = 1019296 0 20 0.05 10 -0.5 0.5 0.1 0.2 -0.50 -0.2 -0.10 -0.2-0.10.1 0.2 y(m) x(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 Ê efficiency Entries Entries 0.02696 -0.01524 0.5 Std Dev 0.4001 Std Dev 0.1119 60 60 40 20 20 -0.5 -0.1 -0.2 -0.50.5 -0.2 0.1 -0.10.1 0 0 0 x(m) x vs y of hits on good tracks (m) <u>×10</u>³ $\times 10^6$ ×10³ Œ, Layer 3 Average Layer 3 Average Efficiency = (88.49 \pm 0.03) % Efficiency = (88.49 \pm 0.03) % 0.5 0.15 N. did hit = 886376 N. did hit = 886376 30 N. should hit = 1001665 N. should hit = 1001665 0. 20 0.05 10 -0.5 -0.50.5 0.2 0 -0.2 -0.10 0.1 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13452) 17: Layer 3 efficiencies

Summary Plots(Run #13452) 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 efficiency Ē Entries 7030 Entries 0.09098 -0.01302 0.5441 Std Dev 0.159 Std Dev 60 0.5 60 40 -0.520 20 0.5 -0.2 0.2 0.2 -0.50 -0.20 0 30F x vs y of hits on good tracks (m) <u>×10</u>³ ×10³ Layer 4 Average Layer 4 Average Efficiency = (92.35 \pm 0.03) % Efficiency = (92.35 \pm 0.03) % N. did hit = 931566 N. did hit = 931566 N. should hit = 1008752 100 0.5 N. should hit = 1008752 20 50 10 -0.5 -0.50.5 -0.20.2 0 0 -0.20.2 x(m) y(m) y(m)

Summary Plots(Run #13452) 19: Module average efficiencies

