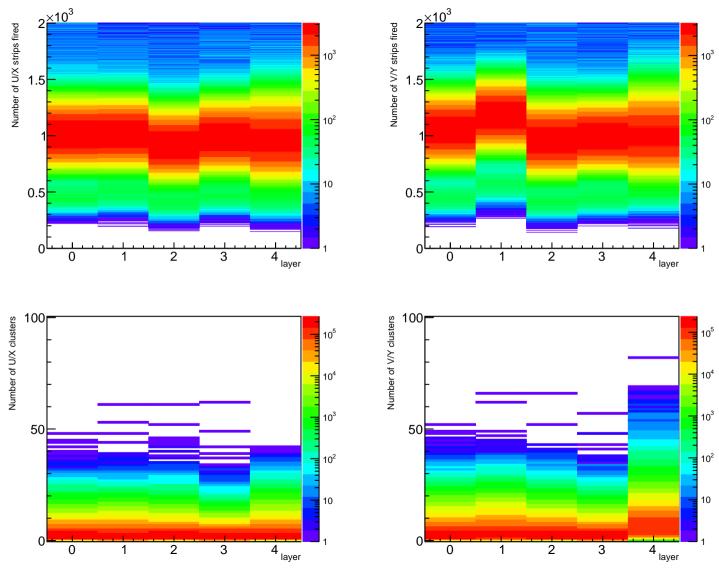
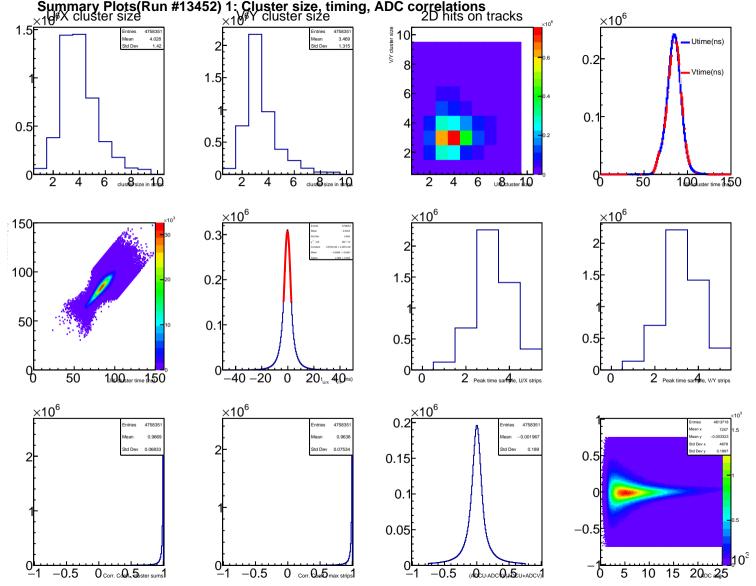
Summary Plots(Run #13452) 0: Strip and cluster multiplicities





Summary Plots(Run #13452) 2: Strip and cluster ADC distributions and correlations $\times 10^3$ $\times 10^3$ 781.2 3248 7418 40 10 Std Dev 30 10 30 20 20 10 10 2U/X max str3 max sample Max strip 400sum (U/X strip1) 10 40F ×10³ 874.1 3651 7472 10 10 Std Dev Std Dev Std Dev Std Dev 30 30 20 20 10 10 ADC cl20sum (V/Y stri30 2 V/Y max st 3 max sample 5 Max strip ADO sum (V/Y strip 1)5 2 10 § 30 × 10 3 $\times 10^3$ Mean y 874.1 3617 Mean y Std Dev x 522.5 2123 Std Dev x § 20 10 AD 20 Ster sum (U.3)0 2x strip max3ample (U/A Max strip ADC1sQ (U/X) 10

Summary Plots(Run #13452) 3: Tracking statistics $\times 10^6$ 10⁶₽ Entries 1101664 Entries 1094175 Mean 1.007 Mean 4.349 Mean 2.469 10⁵ 10⁵ € Std Dev 0.08892 Std Dev 0.6986 Std Dev 5.284 0.4 10⁴ 10^{4} 10³ 0.2 10² 10³ 10 2 10 20 30track chi2/n40 Best track $\times 10^3$ $\times 10^3$ Entries 1094175 Entries 1094175 0.06991 Mean Mean -0.08043 15 Std Dev 0.2667 Std Dev 0.07503 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 dx/dz Entries 1094175 Entries 20 20 0.03669 -0.01593 Mean Mean Std Dev 0.07826 Std Dev 0.02626 0.2 15 15 10 10 -0.20.05 0.2st track dx0z 4 -0.050.05 track dy 0.1 -0.05dy. 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) 80 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) 974.7 / 18 0.15 0.1 0.05 -2 3 2 6 0 1 2 Track u/x excl. residuals (m) 2 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 0.1 0.05

3

4 layer

2

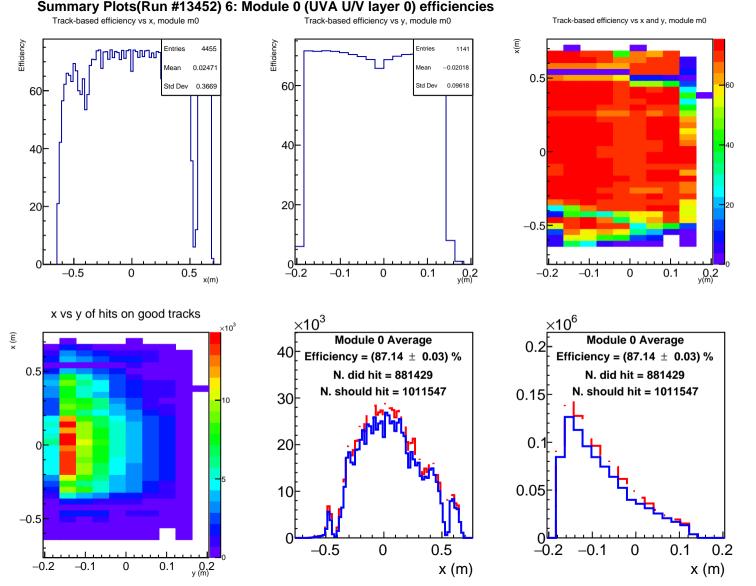
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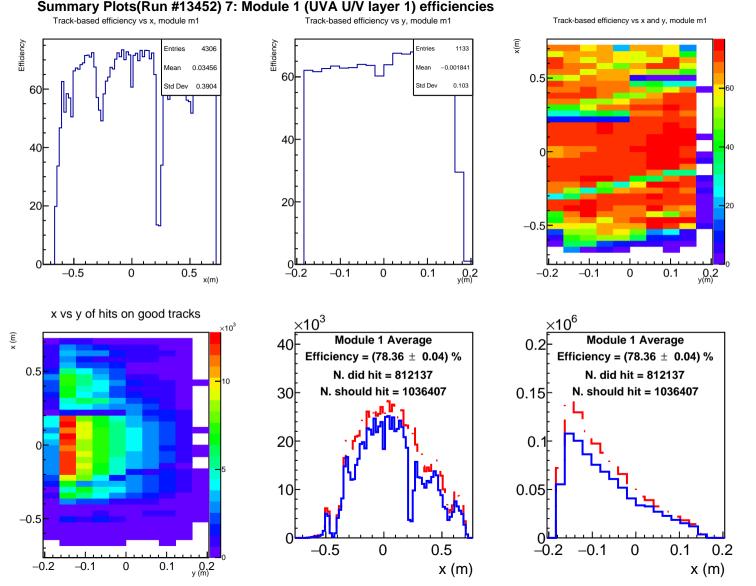
-2

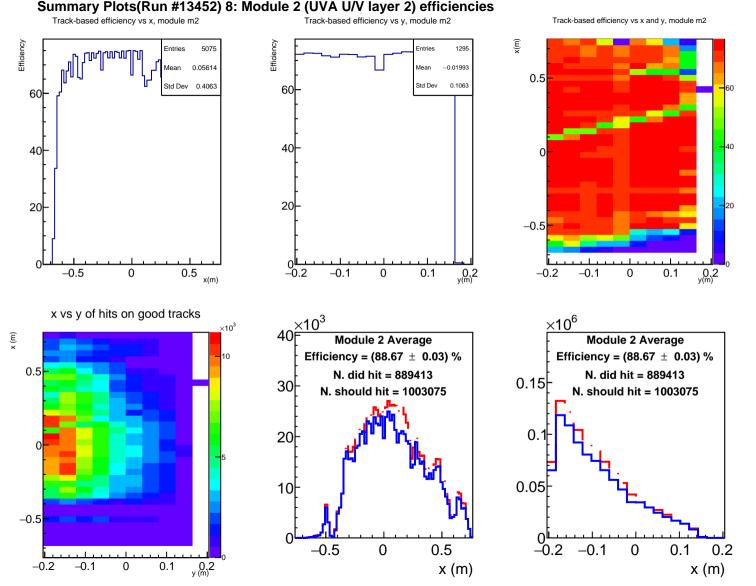
2

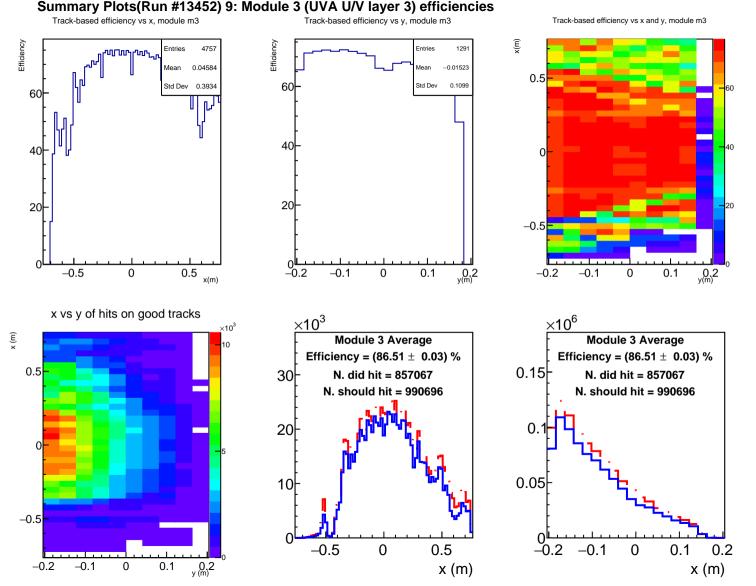
6

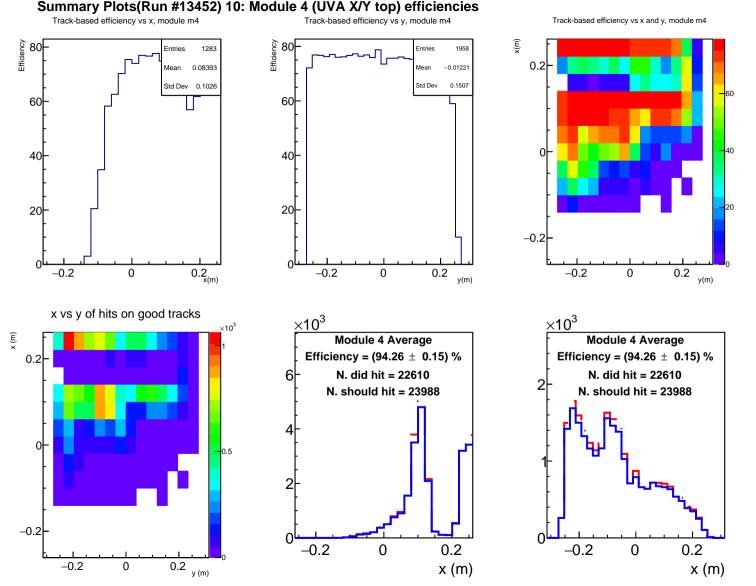
module

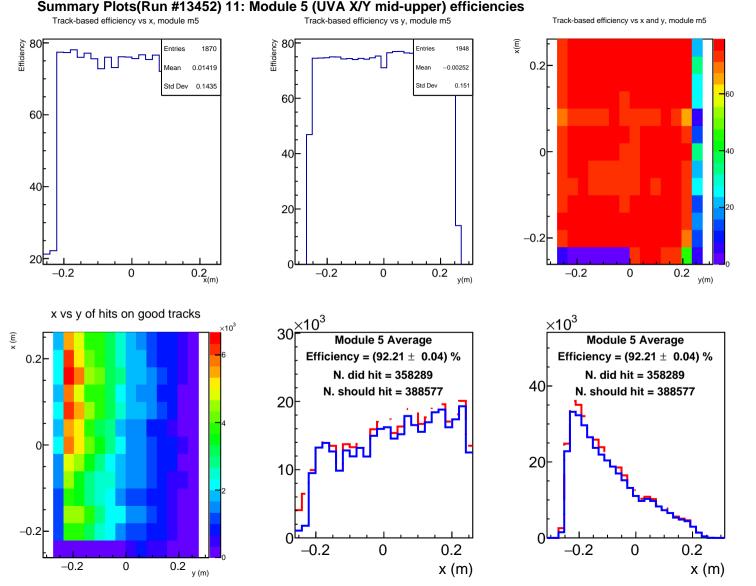


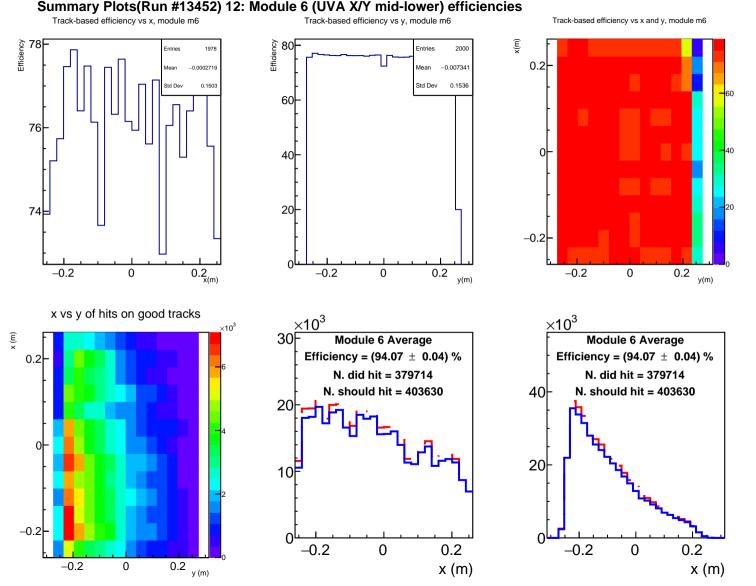


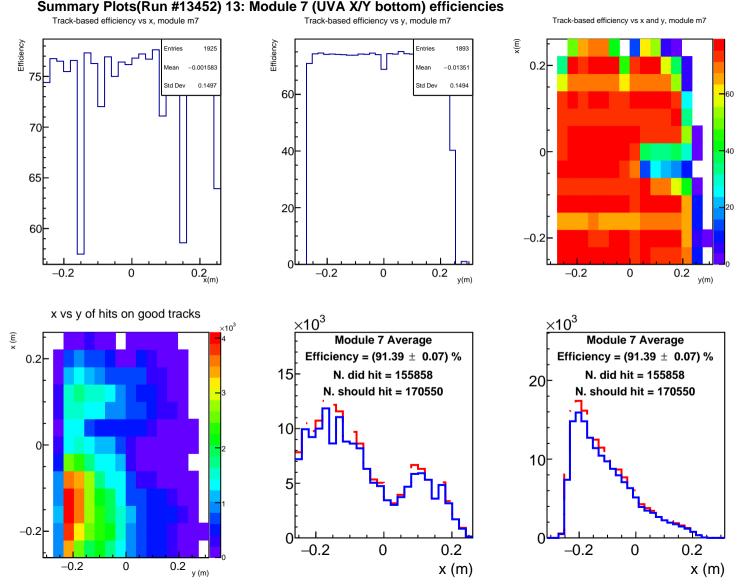












track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x efficiency Ê efficiency Entries <u>Նիլիվիվի</u>յնին 0.02798 -0.02019 60 Std Dev 0.3687 Std Dev 0.09871 60 40 40 20 20 -0.50.2 -0.2 0.5 -0.1 0.1 0.1 -0.5-0.10 0 -0.20 x(m) x vs y of hits on good tracks (m) $\times 10^3$ $\times 10^6$ ×10³ Ē Layer 0 Average Layer 0 Average 40 Efficiency = (87.14 \pm 0.03) % Efficiency = (87.14 \pm 0.03) % 0.5 N. did hit = 881429 N. did hit = 881429 N. should hit = 1011547 N. should hit = 1011547 0.15 30 0. 20 0.05 10 -0.5 -0.50 0.5 -0.2-0.10 0.1 0.2 -0.2-0.10.1 0 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 Ē efficiency efficiency Entries Entries Mean 0.03045 Mean -0.01779 60 Std Dev 0.3893 Std Dev 0.1043 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) 0.2F x vs y of hits on good tracks (m) $\times 10^3$ ×10³ Layer 1 Average Layer 1 Average 40 Efficiency = (78.36 \pm 0.04) % Efficiency = (78.36 \pm 0.04) % 0.5 N. did hit = 812137 N. did hit = 812137 0.15 N. should hit = 1036407 N. should hit = 1036407 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)

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 5056 Մահույուոյիու 0.0445 -0.01695 0.4072 Std Dev 0.1106 60 60 40 40 20 20 0LL -0.2 -0.1 -0.1 -0.50.5 0.1 -0.20.1 0 0 0 x(m) x vs y of hits on good tracks (m) <u>×1</u>0³ $\times 10^6$ ×10³ Œ, 40F Layer 2 Average Layer 2 Average 10 Efficiency = (88.67 \pm 0.03) % Efficiency = (88.67 \pm 0.03) % 0.5 N. did hit = 889413 0.15 N. did hit = 889413 30 N. should hit = 1003075 N. should hit = 1003075 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)

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 Ê efficiency efficiency Entries Entries 0.03393 -0.01582 0.5 60 Std Dev 0.3932 Std Dev 0.1116 60 40 20 20 -0.5 -0.1 -0.2 -0.50.5 -0.2 0.1 -0.10.1 0 0 x(m) x vs y of hits on good tracks (m) $\times 10^3$ $\times 10^6$ ×10³ Ē Layer 3 Average Layer 3 Average Efficiency = $(86.51 \pm 0.03) \%$ Efficiency = (86.51 \pm 0.03) % 0.5 0.15 N. did hit = 857067 N. did hit = 857067 30 N. should hit = 990696 N. should hit = 990696 0. 20 0.05 10 -0.5 -0.5 0.5 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 Ē Entries Entries 0.09577 -0.01352 0.5397 Std Dev 0.1591 Std Dev 60 0.5 60 40 -0.520 20 0.5 -0.2 0.2 -0.50 -0.20 0.2 0 30×10³ x vs y of hits on good tracks (m) <u>×10</u>³ ×10³ Layer 4 Average Layer 4 Average Efficiency = (92.88 \pm 0.03) % Efficiency = (92.88 \pm 0.03) % N. did hit = 916471 N. did hit = 916471 100 N. should hit = 986745 0.5 N. should hit = 986745 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

