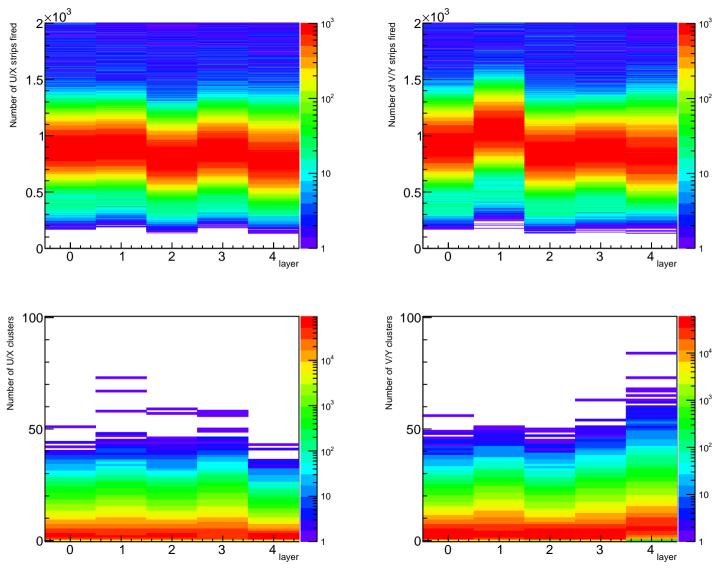
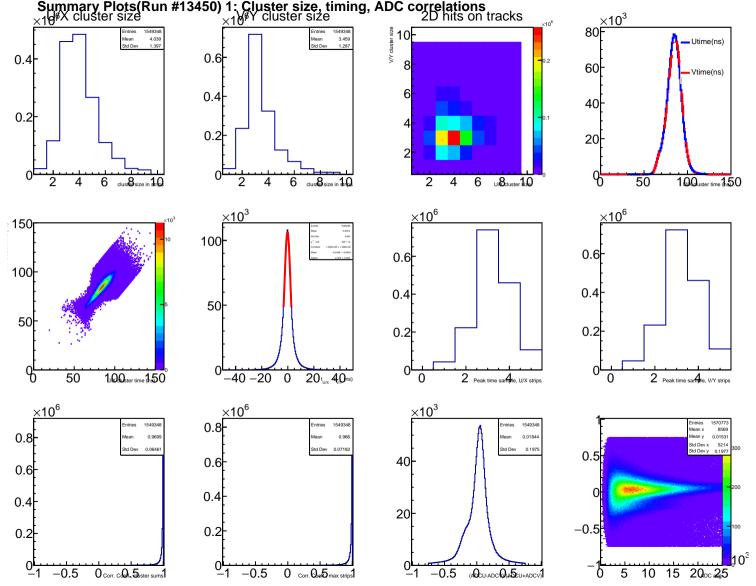
Summary Plots(Run #13450) 0: Strip and cluster multiplicities





Summary Plots(Run #13450) 2: Strip and cluster ADC distributions and correlations $\times 10^3$ $\times 10^3$ $\times 10^3$ 972.4 4078 10 ADC cl20sum (U/X stri30 2U/X max str3 max sample Max strip 100sum (U/X strip1)510 10F 10F × 10³ Std Dev Std Dev Max strip 100sum (V/Y strip1)5ADC cl20sum (V/Y stri30 2 V/Y max st 3 max sample 2 10 $\times 10^3$ Std Dev x 605.5 Std Dev x ₹20 10 AD 20 Ster sum (U.3)0 2x strip max3ample (U/A

Summary Plots(Run #13450) 3: Tracking statistics $\times 10^6$ 10⁵ € Entries 353321 Entries 10⁵ Mean 1.009 Mean 4.42 Mean 2.361 Std Dev 0.09836 0.15 Std Dev 0.676 Std Dev 5.071 10^{4} 10^{4} 10³ 0.1 10³ 10² 0.05 10 10^{2} 10 20 30 track chi2/n4r 8×10³ Best track ×10³ Entries 350497 Entries 350497 0.07746 Mean Mean -0.08047 0.2718 Std Dev Std Dev 0.07572 0.5 -0.5-0.5-0.2 -0.2 0.2 _{y(m)} **Q**₆**5**_{rack X(z=0)}**1**_m 0 Best 0ac2Y(z=0), m 0 0 Best track $\times 10^3$ $\times 10^3$ dx/dz Entries 350497 Entries 0.0389 -0.01593 Mean Mean Std Dev 0.07966 Std Dev 0.02649 0.2 -0.2-0.050.05 track dy 0.1 0.05 0.2st track dx0z 4 -0.05dy. 02. 1 0

Summary Plots(Run #13450) 4: Tracking residuals (inclusive)
All hits 0.15 ×10⁶ <u>×10</u>⁻³ ×10⁻³ Track u/x incl. residuals (m) Track u/x incl. residuals (m) 0.1 0.05 3 _1 0 1 2 Track u/x incl. residuals (m) 4 layer 2 6 module All hits ×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 #13450) 5: Tracking residuals (exclusive)
All hits 60 × 10³ ×10⁻³ ×10⁻³ Track u/x excl. residuals (m) Track u/x excl. residuals (m) 328.3 / 17 40 20 3 2 6 0 1 2 Track u/x excl. residuals (m) 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) 60 40 20

3

4 layer

2

0

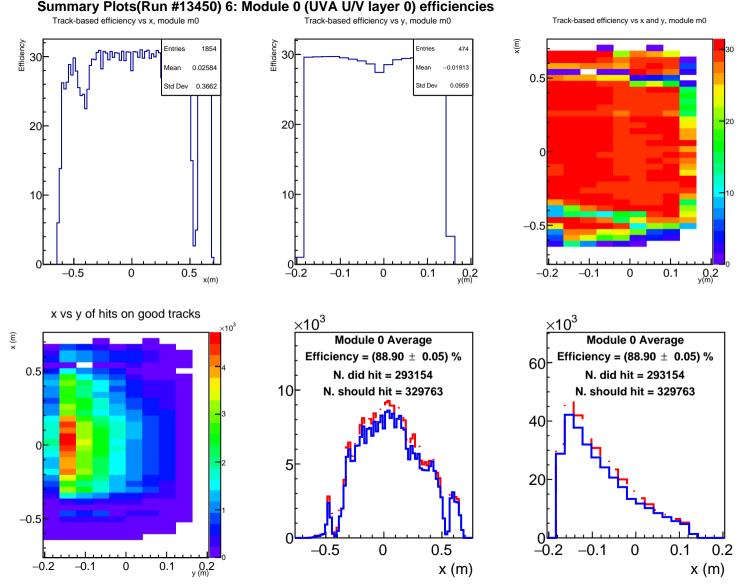
2

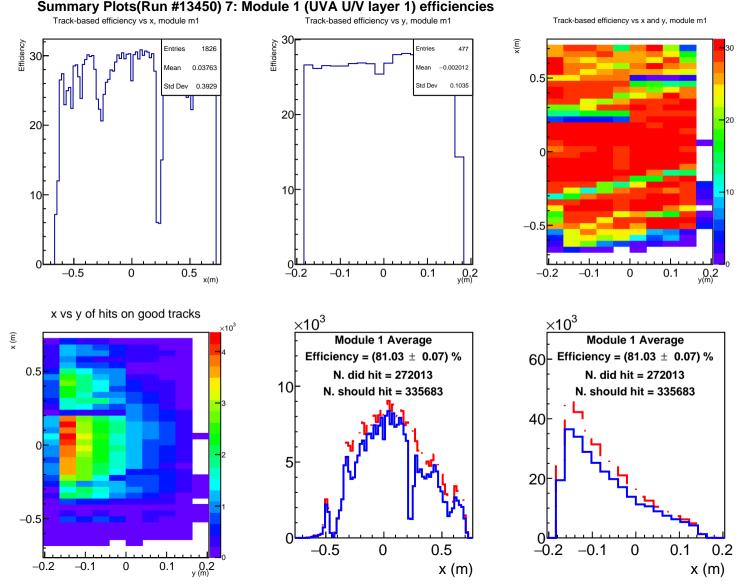
6

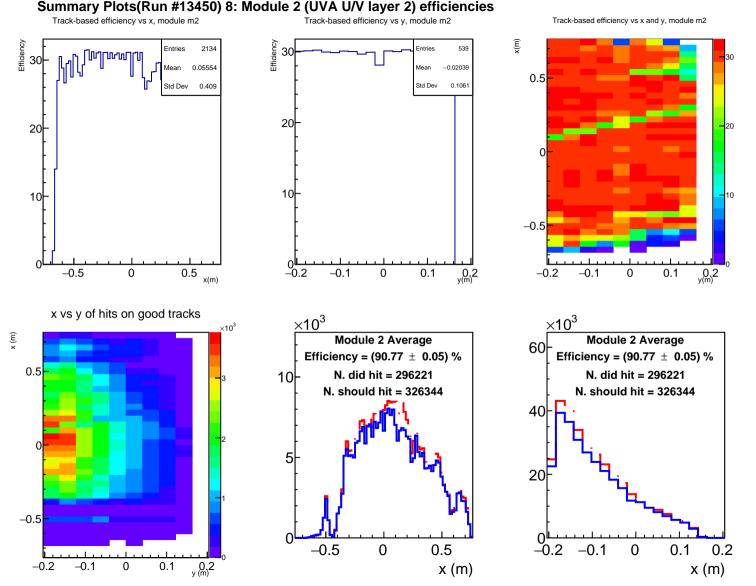
module

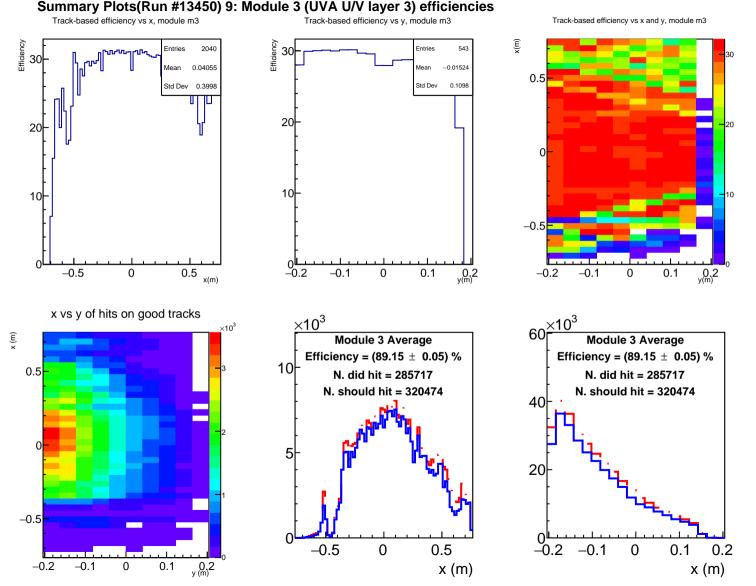
-2

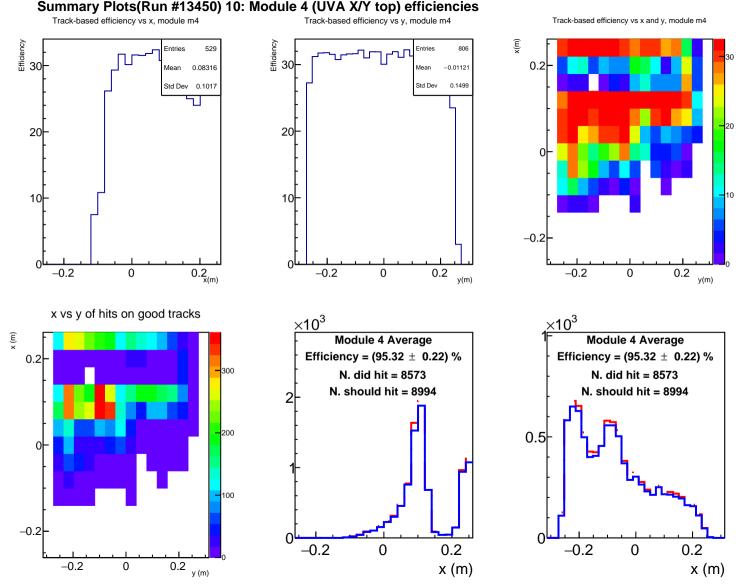
0 1 2 Track v/y excl. residuals (m)

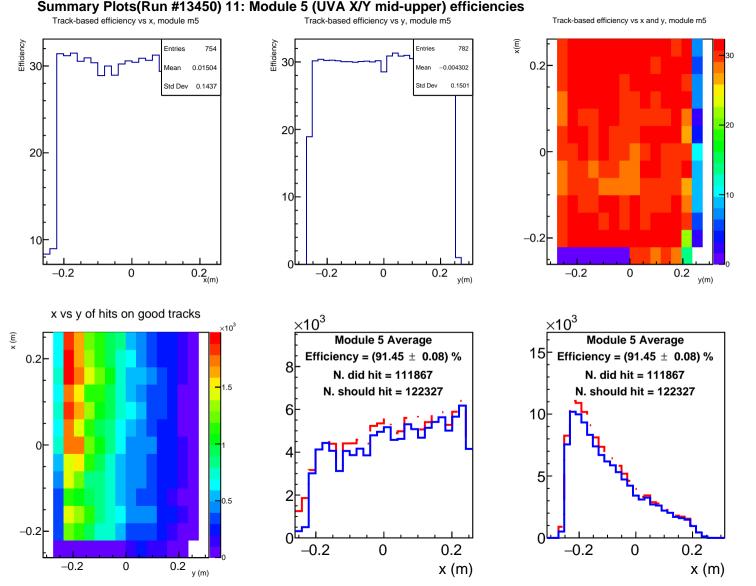


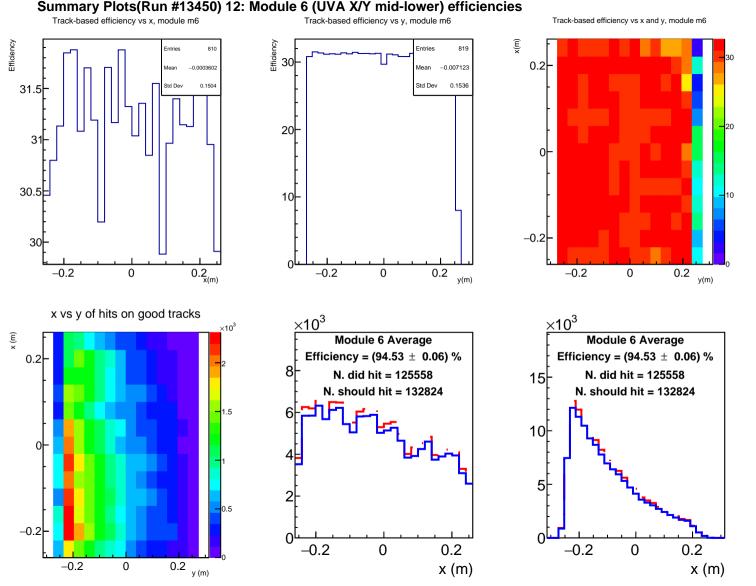


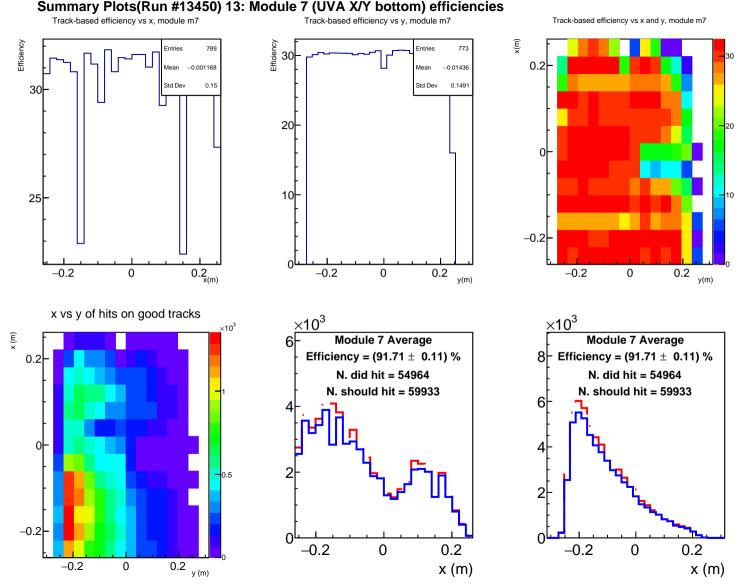












Summary Plots(Run #13450) 14: Layer 0 efficiencies track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x Ê Entries ^ւղիկունինը, Մարդույ 30 30 0.02886 -0.01982 0.09868 Std Dev 0.3682 Std Dev 20 20 10 10 -0.5 0.2 -0.2 0.5 -0.1 0.1 -0.50.1 -0.10 0 -0.20 x(m) x vs y of hits on good tracks (m) <u>×10</u>³ $\times 10^3$ ×10³ Œ, Layer 0 Average Layer 0 Average 60 Efficiency = (88.90 \pm 0.05) % Efficiency = (88.90 \pm 0.05) % 0.5 N. did hit = 293154 N. did hit = 293154 N. should hit = 329763 N. should hit = 329763 10 40 5 20 -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 #13450) 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 30 Ê Entries Entries 30 Mean 0.03143 Mean -0.01865 0.392 Std Dev 0.1044 Std Dev 20 20 10 10 -0.5 _0.2 -0.1 0.1 -0.1 0.1 -0.50.5 -0.2 0 0 0 y(m) y(m) x vs y of hits on good tracks (m) <u>×10</u>³ $\times 10^3$ ×10³ Layer 1 Average Layer 1 Average Efficiency = (81.03 \pm 0.07) % Efficiency = (81.03 \pm 0.07) % 0.5 N. did hit = 272013 N. did hit = 272013 10 N. should hit = 335683 N. should hit = 335683 40 5 20 -0.5 -0.50.5 -0.2 0.1 0 -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 Œ, Entries 2113 Entries 30 <u> Մարտալիդ</u> 0.04712 -0.01784 0.5 0.4081 Std Dev 0.1102 20 20 10 10 -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) <u>×10</u>³ $\times 10^3$ ×10³ Ē Layer 2 Average 60 Layer 2 Average Efficiency = (90.77 \pm 0.05) % Efficiency = (90.77 \pm 0.05) % 0.5 N. did hit = 296221 N. did hit = 296221 10 N. should hit = 326344 N. should hit = 326344 40 0 5 20 -0.5 0.5 0.1 0.2 -0.50 -0.2 -0.10 -0.2-0.10.1 x(m) y(m)

Summary Plots(Run #13450) 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 2013 Entries Entries 0.03123 -0.01595 Std Dev 0.3981 Std Dev 0.1117 20 10 10 -0.5 -0.1 -0.50.5 -0.2 0.1 -0.2-0.10.1 0 0 x(m) x vs y of hits on good tracks (m) $\times 10^3$ <u>×10</u>³ ×10³ Œ, Layer 3 Average Layer 3 Average Efficiency = (89.15 \pm 0.05) % Efficiency = (89.15 \pm 0.05) % 10 0.5 N. did hit = 285717 N. did hit = 285717 N. should hit = 320474 N. should hit = 320474 40-₋ 5 20 -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 #13450) 17: Layer 3 efficiencies

Summary Plots(Run #13450) 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 Ē Entries 2871 Entries 30 0.09288 Mean -0.01361 Std Dev 0.5424 Std Dev 0.1587 0.5 20 20 10 10 -0.50.5 -0.2 0.2 -0.2 0.2 -0.50 0 0 x vs y of hits on good tracks (m) <u>×10</u>³ $\times 10^3$ ×10³ Layer 4 Average Layer 4 Average 40 Efficiency = (92.87 \pm 0.05) % Efficiency = (92.87 \pm 0.05) % N. did hit = 300962 N. did hit = 300962 0.5 N. should hit = 324078 N. should hit = 324078 30 20 10 -0.5 -0.50.5 -0.2 0.2 0 0 0.2 -0.2x(m) y(m) y(m)

Summary Plots(Run #13450) 19: Module average efficiencies

