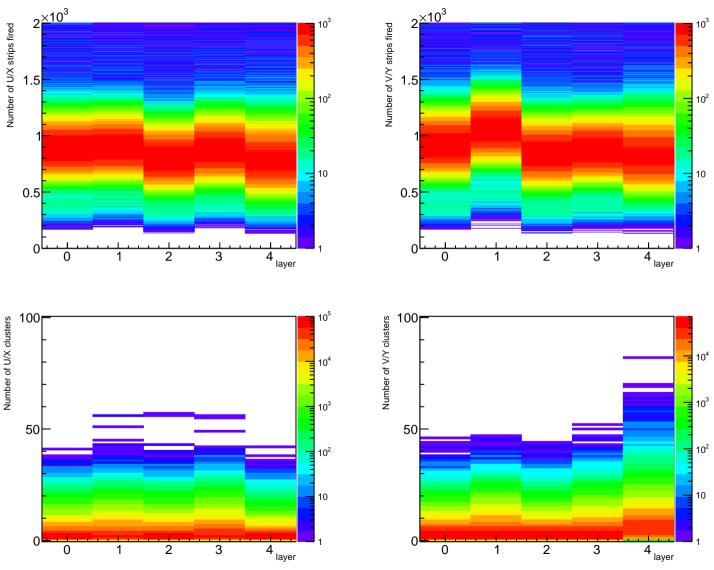
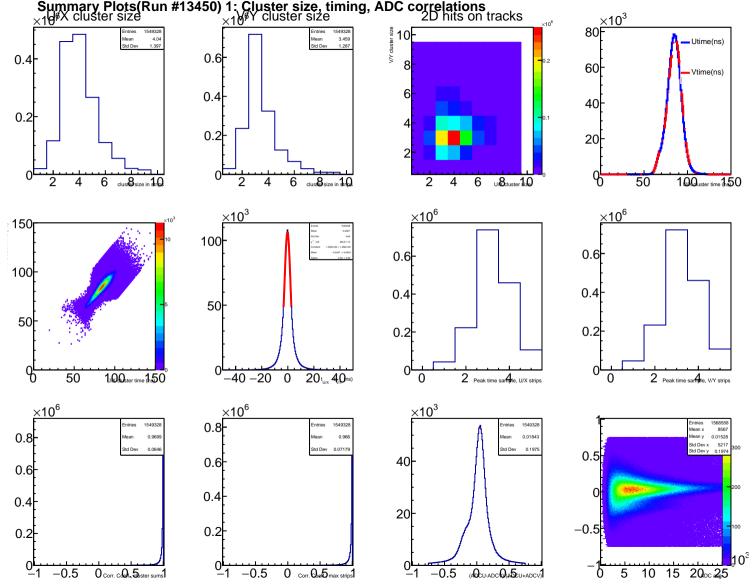
Summary Plots(Run #13450) 0: Strip and cluster multiplicities





Summary Plots(Run #13450) 2: Strip and cluster ADC distributions and correlations  $\times 10^3$   $\times 10^3$  $\times 10^3$ 972.8 10 ADC cl20sum (U/X stri30 2U/X max str3 max sample Max strip 400sum (U/X strip1) 10F 10F × 10<sup>3</sup> Std Dev Max strip 100sum (V/Y strip1)5ADC cl20sum (V/Y stri30 2 V/Y max st 3 max sample 2 10  $\times 10^3$ 1060 Std Dev x 605.6 Std Dev x ₹20 10 AD 20 Ster sum (U.3)0 2x strip max3ample (U/A

Summary Plots(Run #13450) 3: Tracking statistics  $\times 10^6$ 10<sup>5</sup> € Entries 352882 Entries 10<sup>5</sup> Mean 1.008 Mean 4.421 Mean 2.36 Std Dev 0.09905 0.15 Std Dev 0.6756 Std Dev 5.072 10<sup>4</sup>  $10^{4}$ 10<sup>3</sup> 0.1 10<sup>3</sup> 10<sup>2</sup> 0.05 10  $10^{2}$ 10 20 30 track chi2/ndr 8×10<sup>3</sup> Best track ×10<sup>3</sup> Entries 350437 Entries 350437 0.07766 Mean Mean -0.08046 0.2714 Std Dev Std Dev 0.07572 200 0.5 -0.5-0.5-0.2 -0.2 0.2 <sub>y(m)</sub> **Q**<sub>6</sub>**5**<sub>rack X(z=0)</sub>**1**<sub>m</sub> 0 Best 0ac2Y(z=0), m 0 0 Best track  $\times 10^3$  $\times 10^3$ dx/dz Entries 350437 Entries 0.03899 -0.01593 Mean Mean Std Dev 0.07953 Std Dev 0.02648 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 ×10<sup>6</sup> <u>×10</u><sup>-3</sup> ×10<sup>-3</sup> 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 ×10<sup>6</sup> 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<del>×10<sup>3</sup></del> ×10<sup>-3</sup> ×10<sup>-3</sup> Track u/x excl. residuals (m) Track u/x excl. residuals (m) 330.2 / 17 40 20 2 6 0 1 2 Track u/x excl. residuals (m) 3 4 layer 4 0 2 module All hits ×10<sup>-3</sup> ×10<sup>-3</sup> ×10<sup>3</sup> Track v/y excl. residuals (m) Track v/y excl. residuals (m) 60 40 20

3

4 layer

2

0

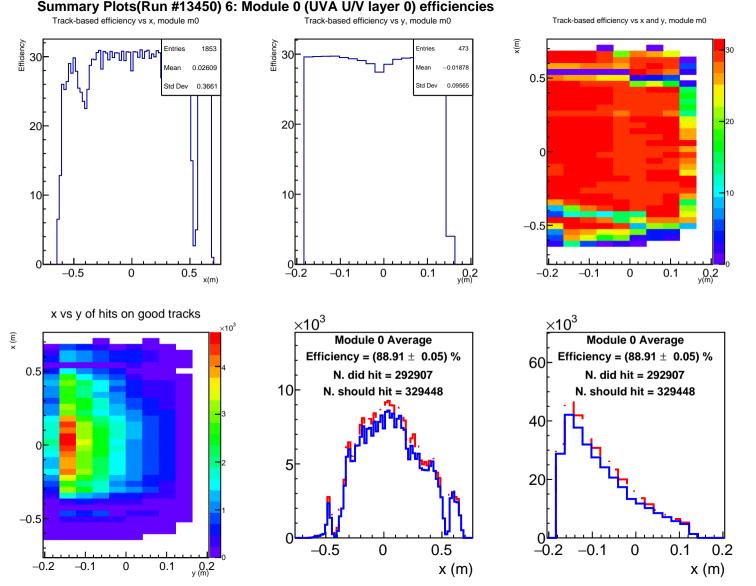
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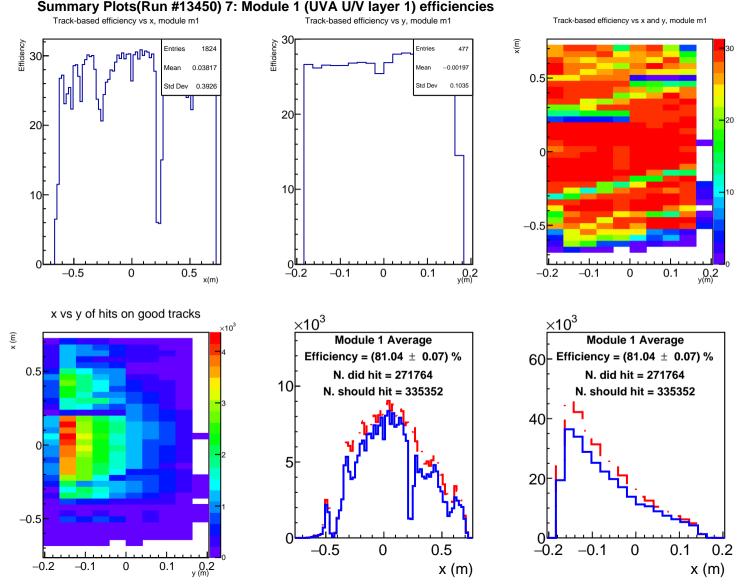
6

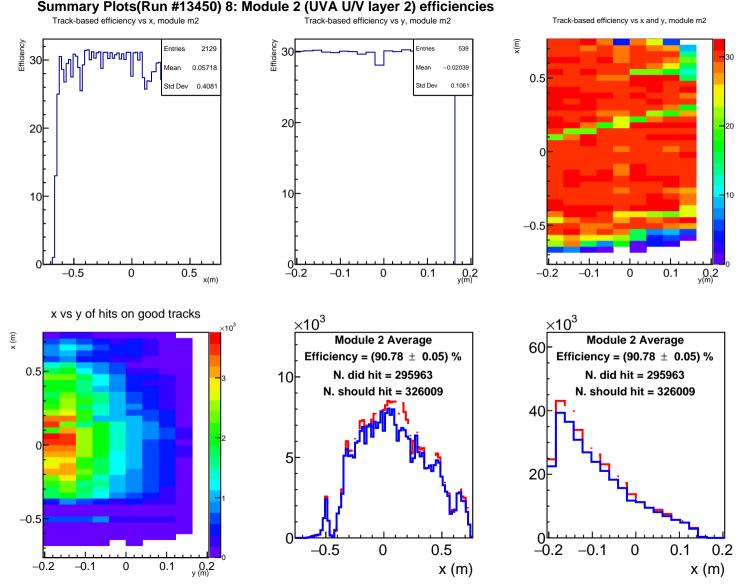
module

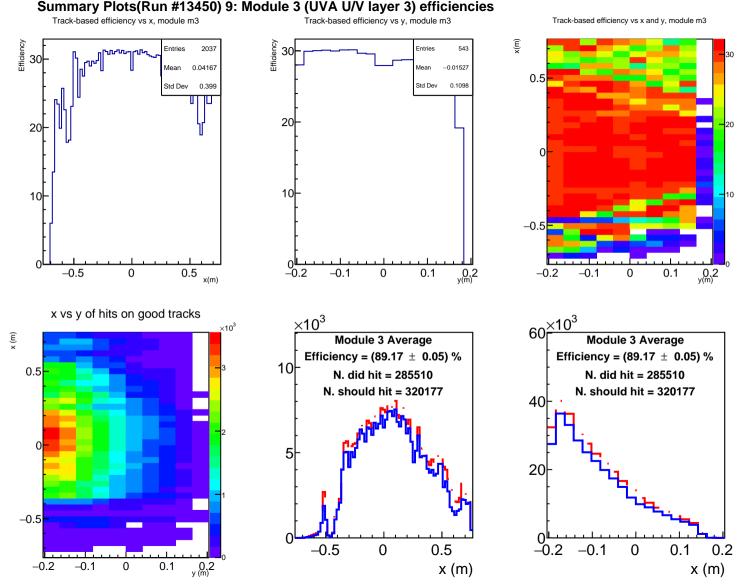
-2

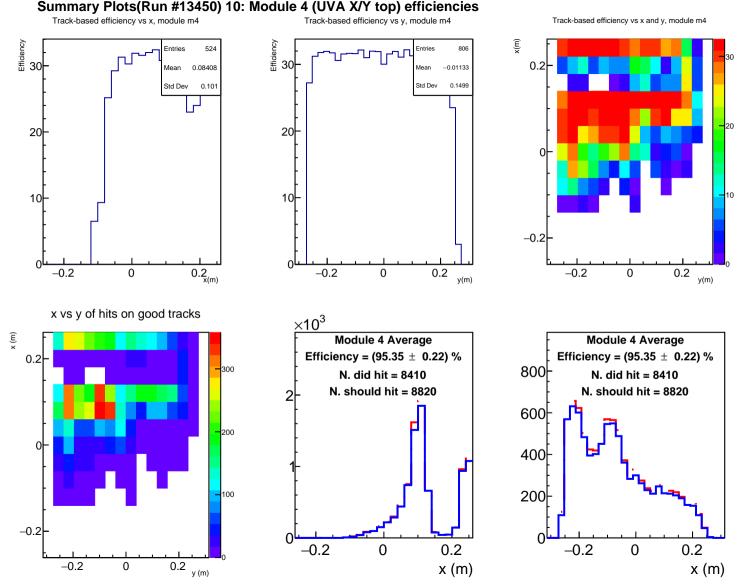
0 1 2 Track v/y excl. residuals (m)

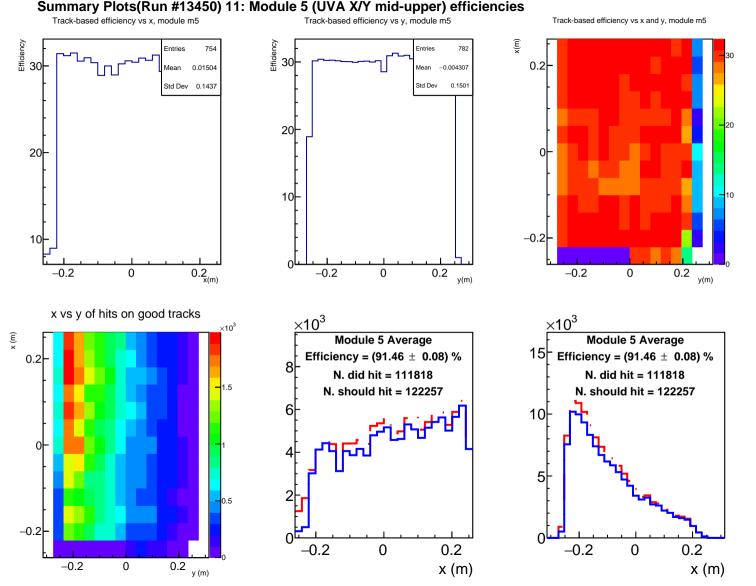


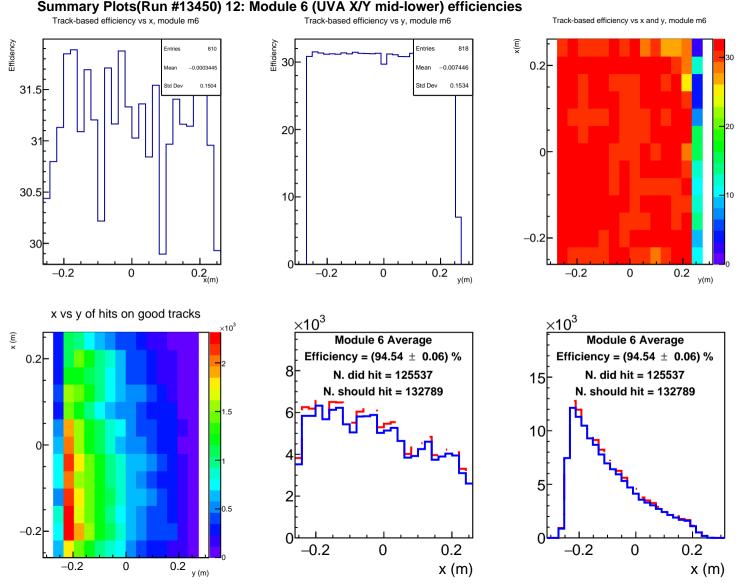


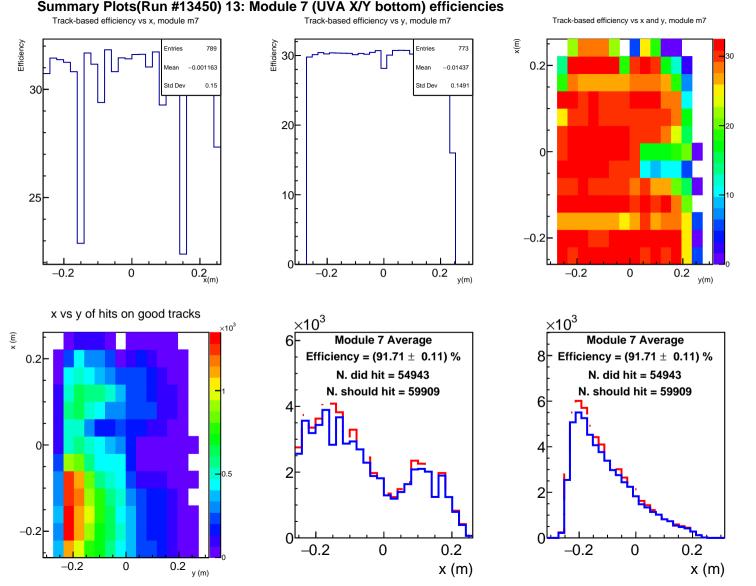












Summary Plots(Run #13450) 14: Layer 0 efficiencies track-based efficiency vs x, y track-based efficiency vs x (m), averaged over y track-based efficiency vs y (m), averaged over x Ê Entries <sup>Կ</sup>ՆՈՆՈՆՈՆՈՒՎ 30 0.02856 -0.01989 Std Dev 0.3679 Std Dev 0.09865 20 20 10 10 -0.5 0.2 -0.2 0.5 -0.1 0.1 0.1 -0.5-0.10 0 -0.20 x(m) x vs y of hits on good tracks (m) <u>×10</u><sup>3</sup>  $\times 10^3$ ×10<sup>3</sup> Œ, Layer 0 Average Layer 0 Average 60 Efficiency = (88.91  $\pm$  0.05) % Efficiency = (88.91  $\pm$  0.05) % 0.5 N. did hit = 292907 N. did hit = 292907 N. should hit = 329448 N. should hit = 329448 10 40 5 20 -0.5 -0.50 0.5 <del>-</del>0.2 -0.10 0.1 0.2 -0.2-0.10.1 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 30 Ê Entries Entries 30 Mean 0.03163 Mean -0.01871 Std Dev 0.3919 Std Dev 0.1044 20 20 10 10 -0.5 \_0.2 -0.1 0.1 -0.1 0.1 -0.50.5 -0.2 0 0 y(m) y(m) x vs y of hits on good tracks (m) <u>×10</u><sup>3</sup>  $\times 10^3$ ×10<sup>3</sup> Œ, Layer 1 Average Layer 1 Average 60 Efficiency = (81.04  $\pm$  0.07) % Efficiency = (81.04  $\pm$  0.07) % 0.5 N. did hit = 271764 N. did hit = 271764 10 N. should hit = 335352 N. should hit = 335352 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)

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 Œ, Entries 2109 Entries 30 Նու իստովետվ 0.04843 -0.01784 0.5 0.4074 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><sup>3</sup>  $\times 10^3$ ×10<sup>3</sup> Ē Layer 2 Average Layer 2 Average Efficiency = (90.78  $\pm$  0.05) % Efficiency = (90.78  $\pm$  0.05) % 0.5 N. did hit = 295963 N. did hit = 295963 10 N. should hit = 326009 N. should hit = 326009 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 Entries Entries 30 0.03257 -0.01596 Std Dev 0.3974 Std Dev 0.1117 20 10 10 -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)  $\times 10^3$ <u>×10</u><sup>3</sup> ×10<sup>3</sup> Œ, Layer 3 Average Layer 3 Average Efficiency = (89.17  $\pm$  0.05) % Efficiency = (89.17  $\pm$  0.05) % 10 0.5 N. did hit = 285510 N. did hit = 285510 N. should hit = 320177 N. should hit = 320177 40-<sub>-</sub> 5 20 -0.5-0.50.5 0.2 0 <del>-</del>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 Entries 30 0.09459 -0.01362 Std Dev 0.5415 Std Dev 0.1587 0.5 20 20 10 10 -0.50.5 -0.2 0.2 -0.2 0.2 -0.50 0 10×10<sup>3</sup> x vs y of hits on good tracks (m)  $\times 10^3$ ×10<sup>3</sup> Layer 4 Average Layer 4 Average 40 Efficiency = (92.88  $\pm$  0.05) % Efficiency = (92.88  $\pm$  0.05) % N. did hit = 300708 N. did hit = 300708 0.5 N. should hit = 323775 N. should hit = 323775 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

