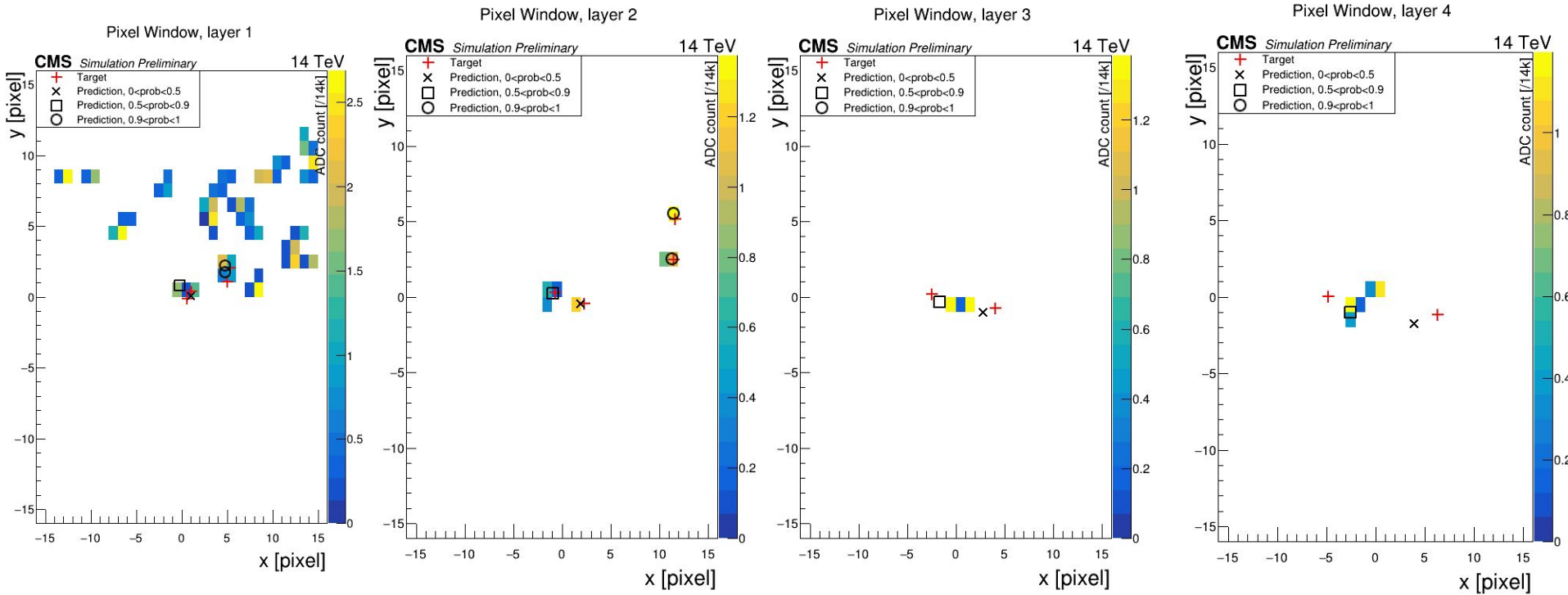


Visualization of DeepCore Predictions

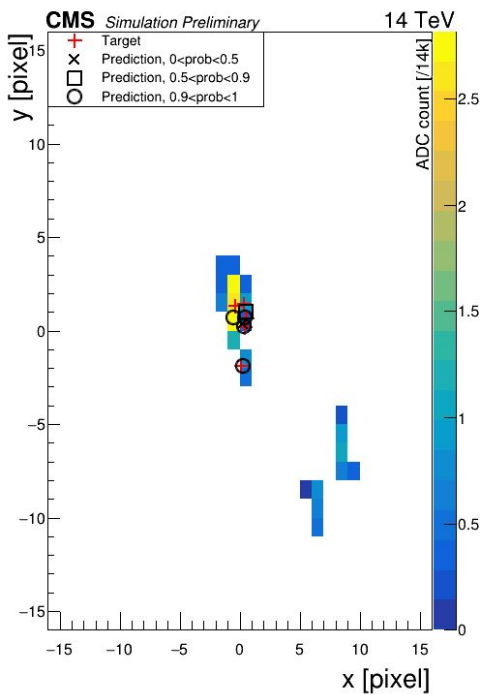
Liam O'Shaughnessy - 29/03/24

Changes

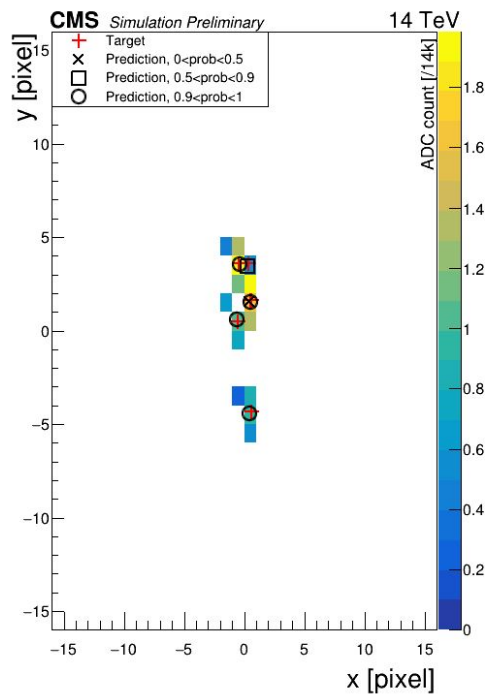
- Motivation: might be able to better understand the dx boomerang if it possible to visualize the tracks better (from Fall 2023 semester)
- This version of the DeepCore visualization script contains following improvements over old version:
 - TeV corrected to 14, layer distances corrected in linear propagation
 - Target points outside standard pixel dimensions rescaled to big pixel dimensions (does not catch every big pixel)
 - Probability score of predictions now visible by shape
 - Code condensed and simplified



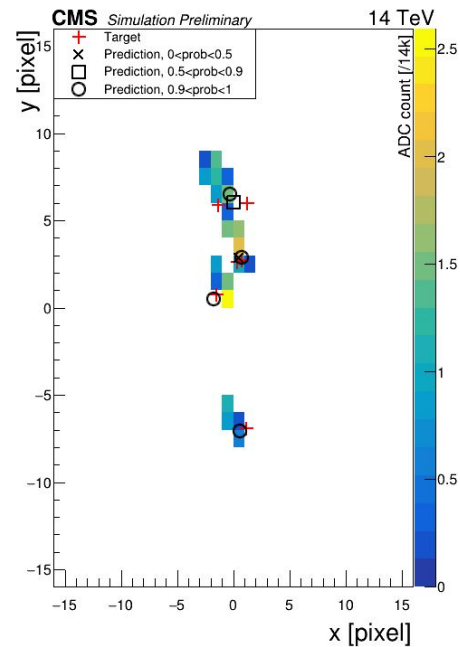
Pixel Window, layer 1



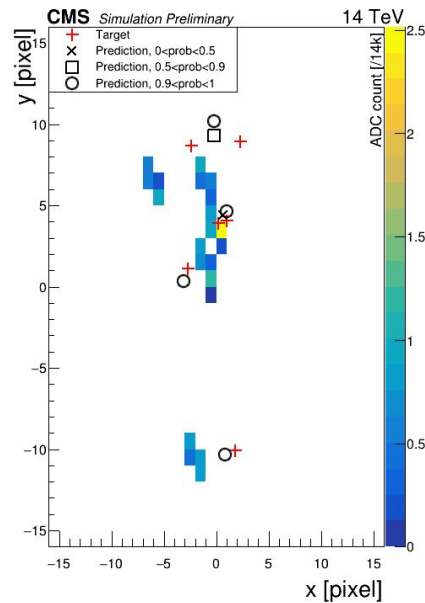
Pixel Window, layer 2



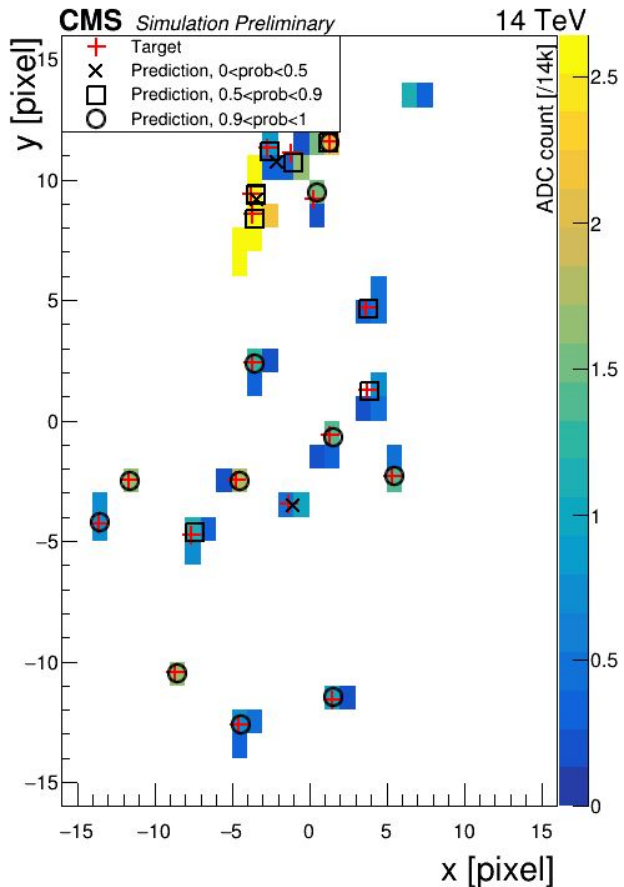
Pixel Window, layer 3



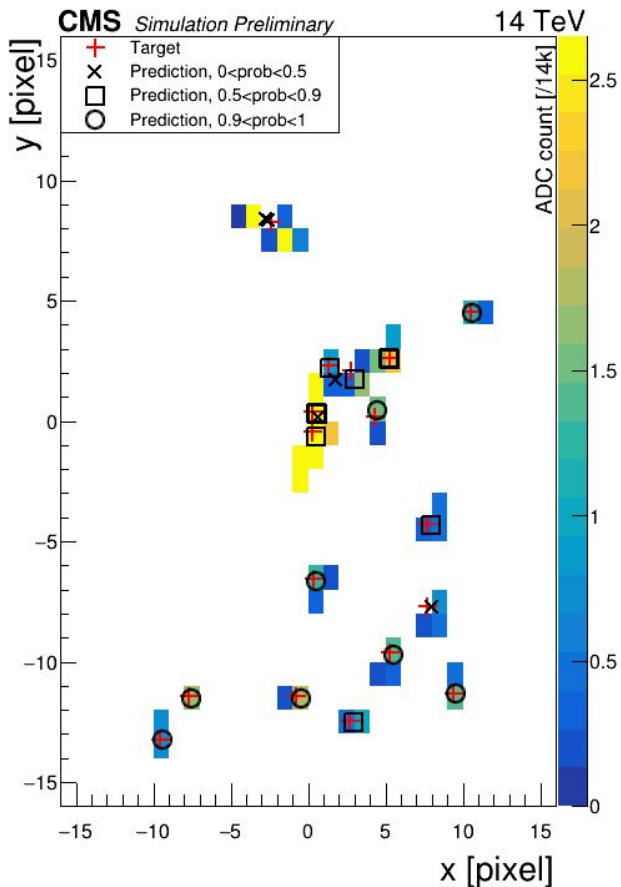
Pixel Window, layer 4



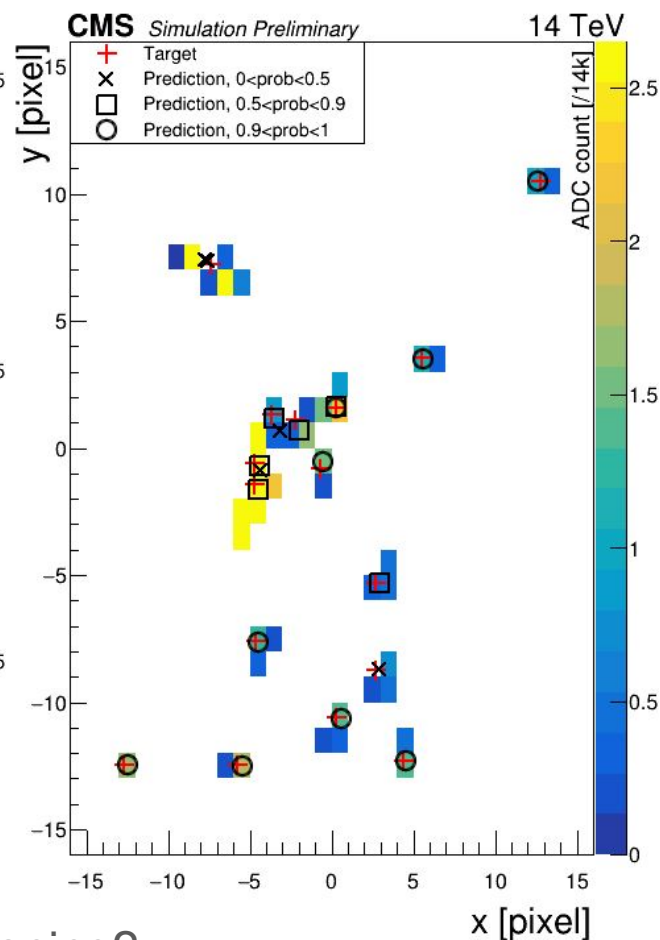
Pixel Window, layer 2



Pixel Window, layer 2

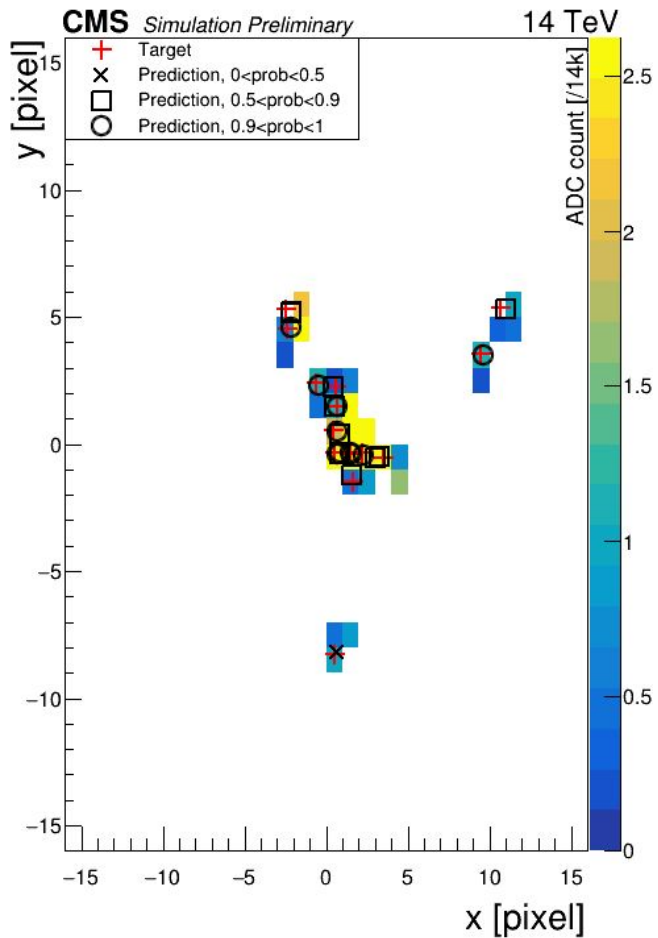


Pixel Window, layer 2

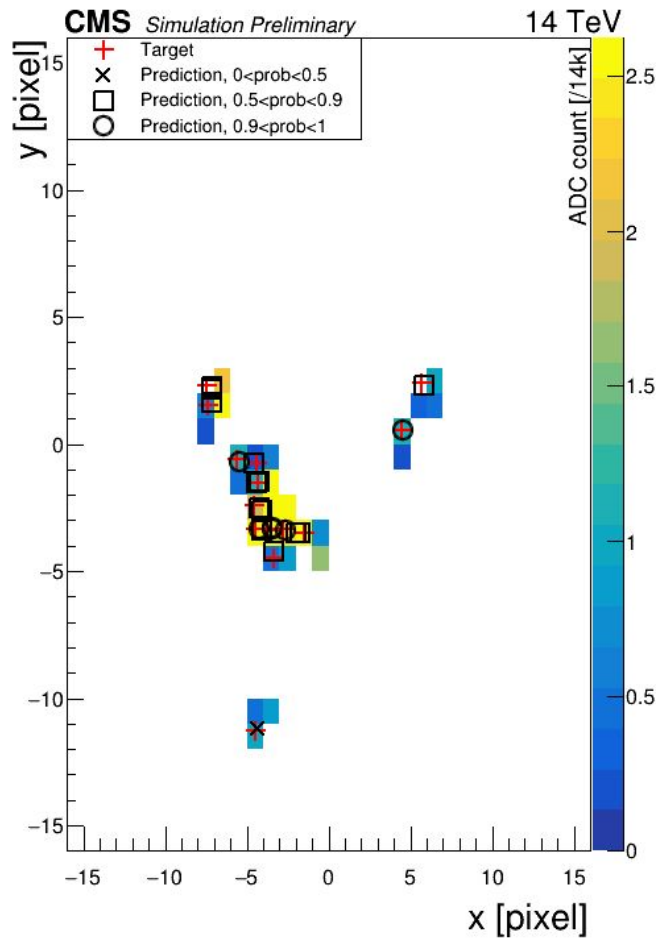


These look like the same thing - multiple windows opening?

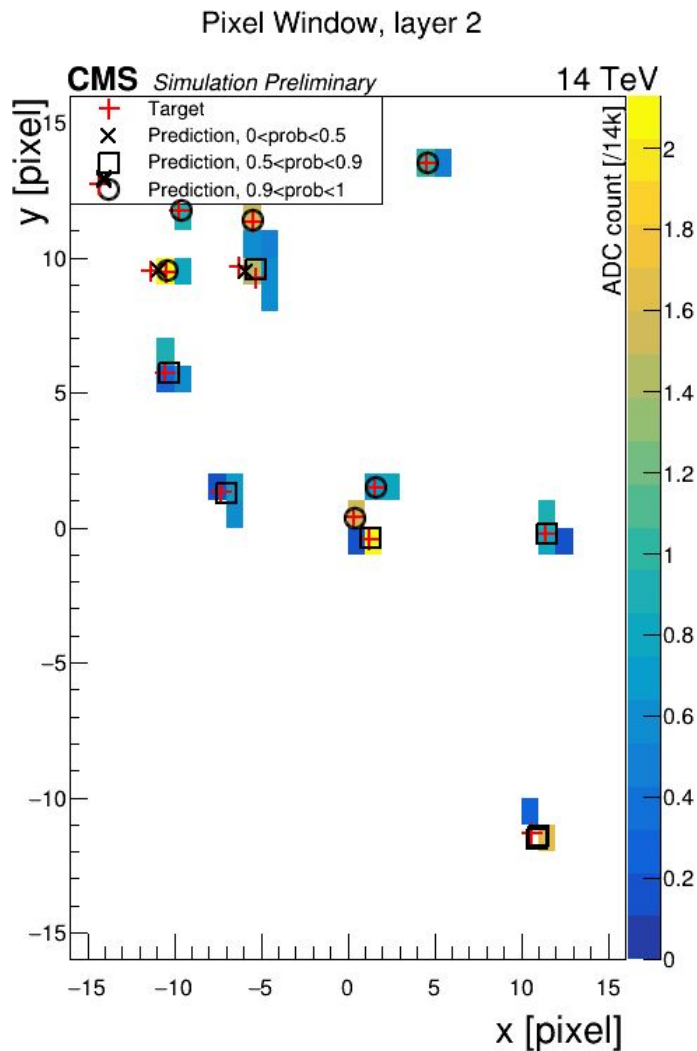
Pixel Window, layer 2



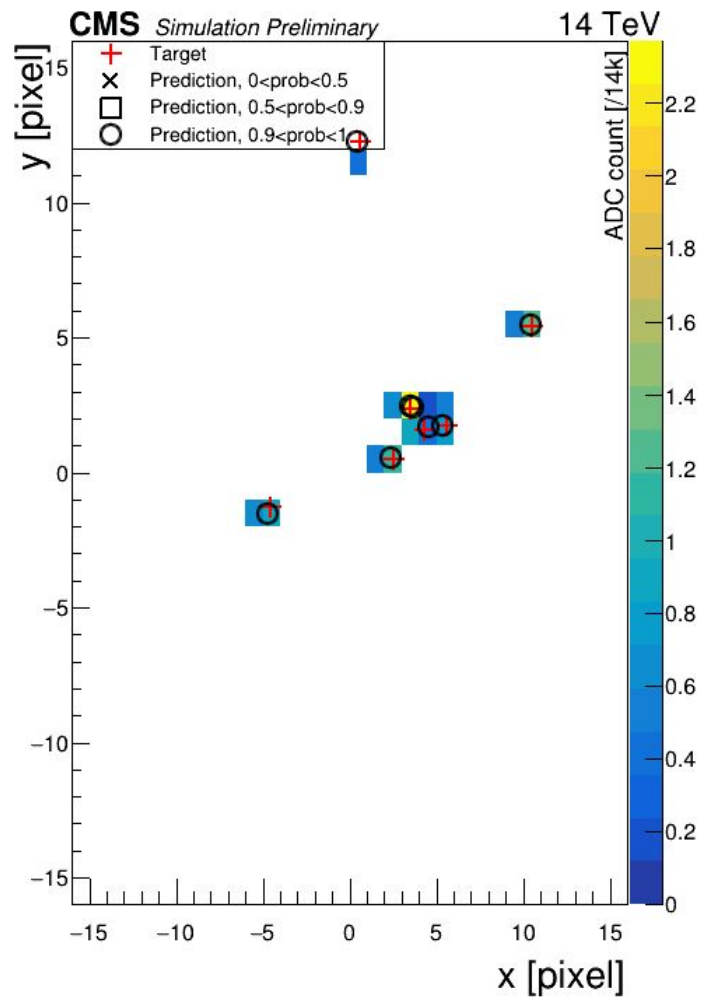
Pixel Window, layer 2



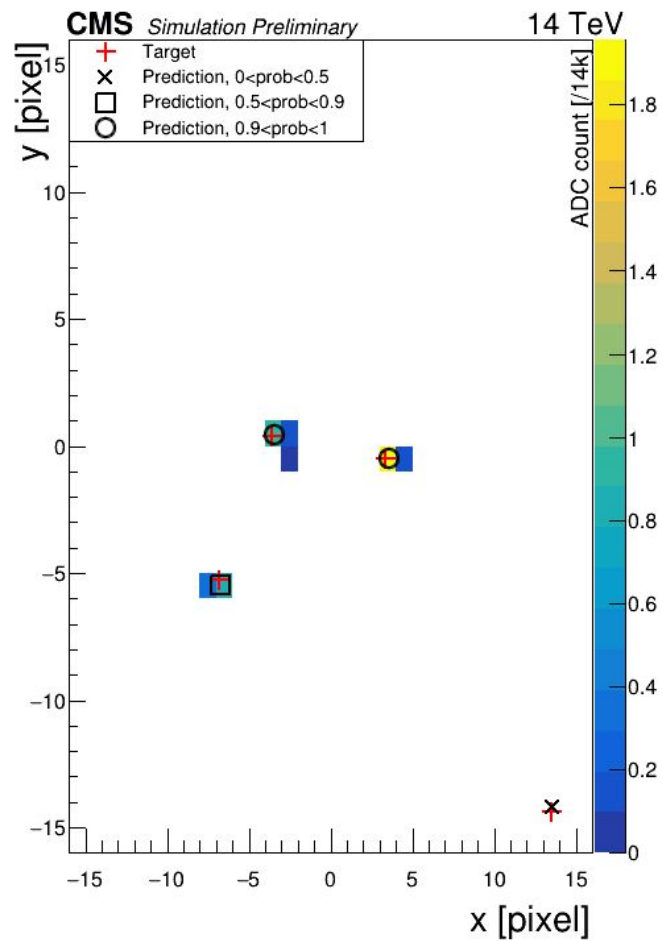
Sometimes individual layers/all layers in event missing charge or points - script error or data issue?



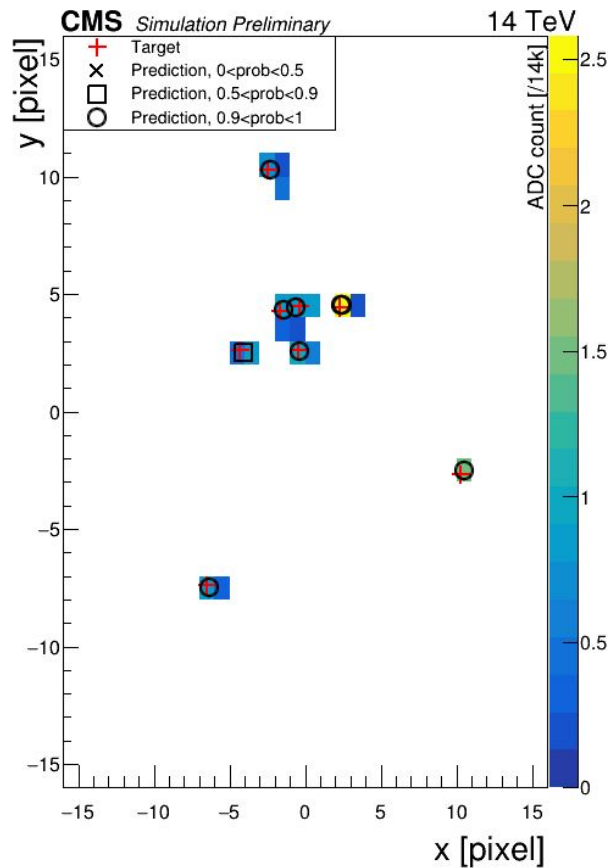
Pixel Window, layer 2



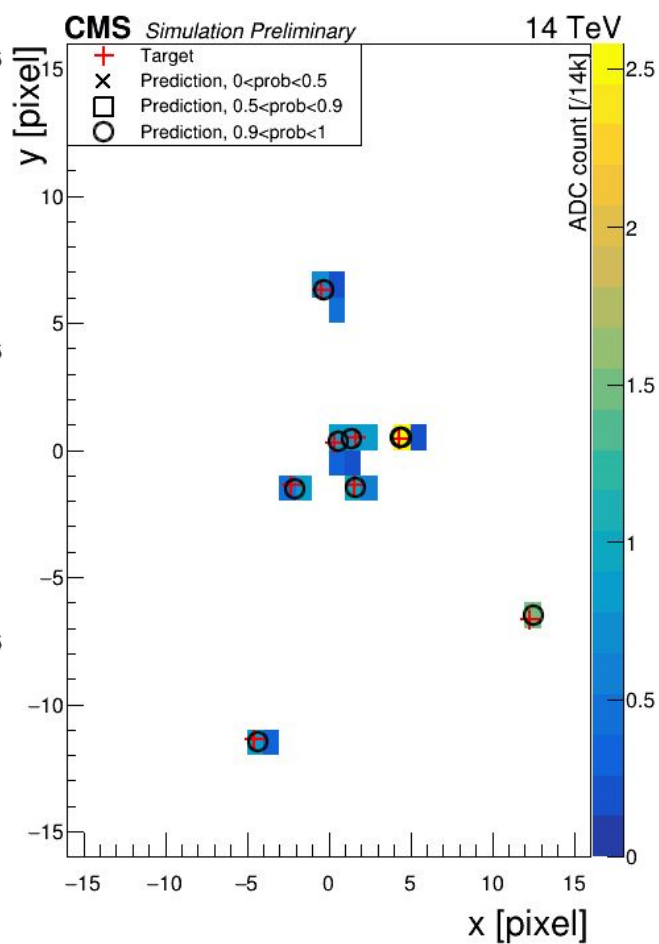
Pixel Window, layer 2



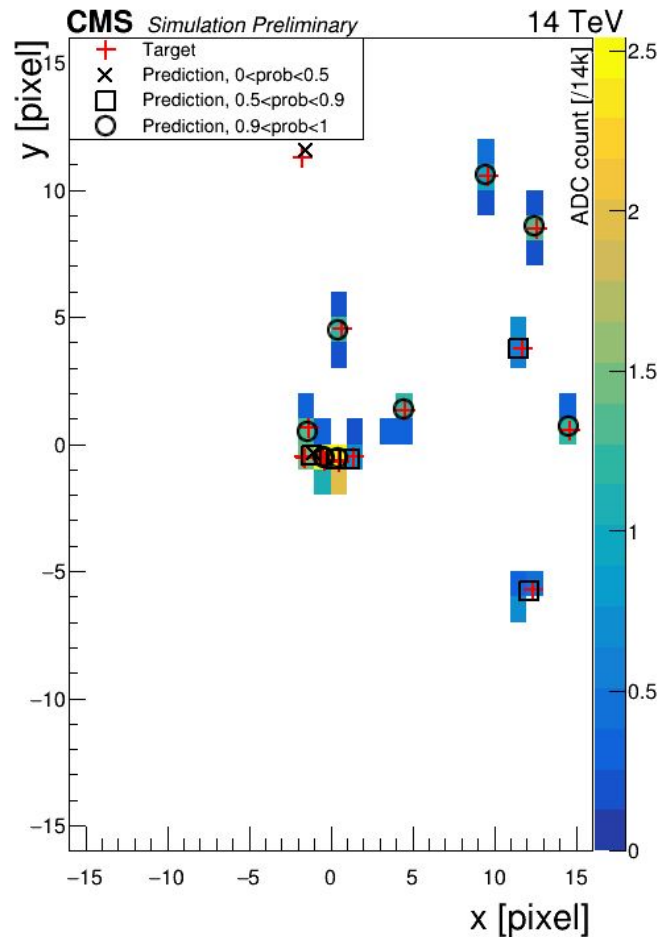
Pixel Window, layer 2



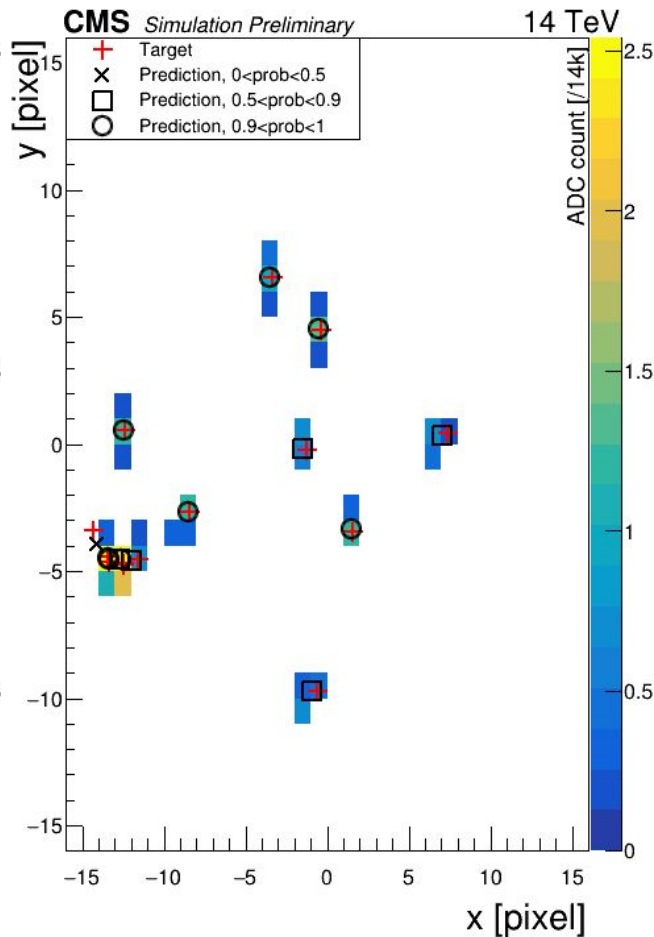
Pixel Window, layer 2



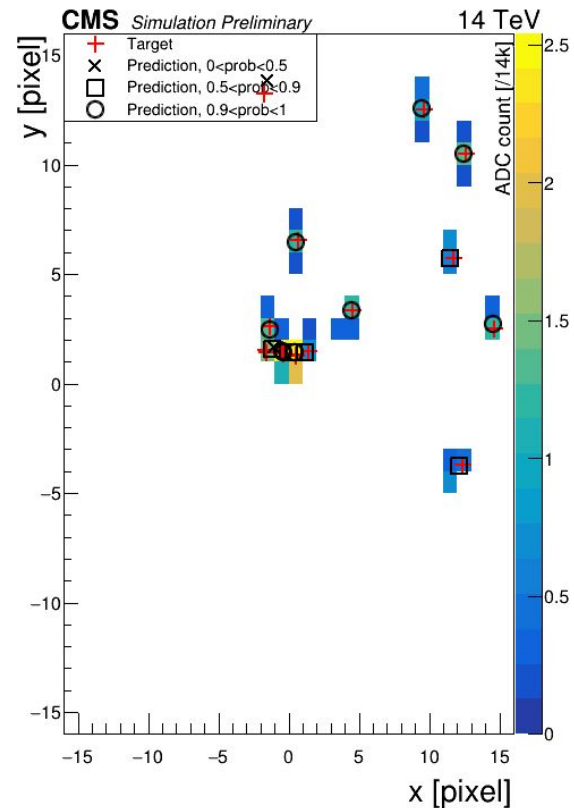
Pixel Window, layer 2

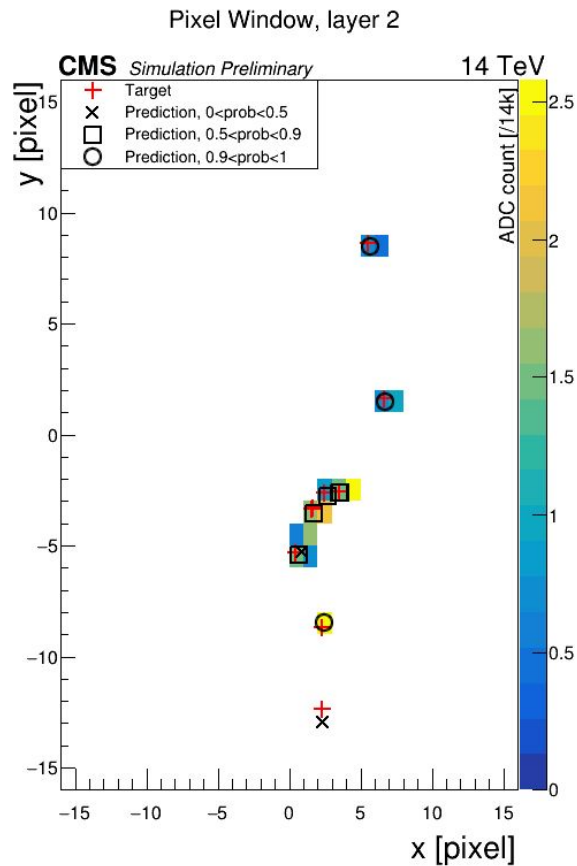
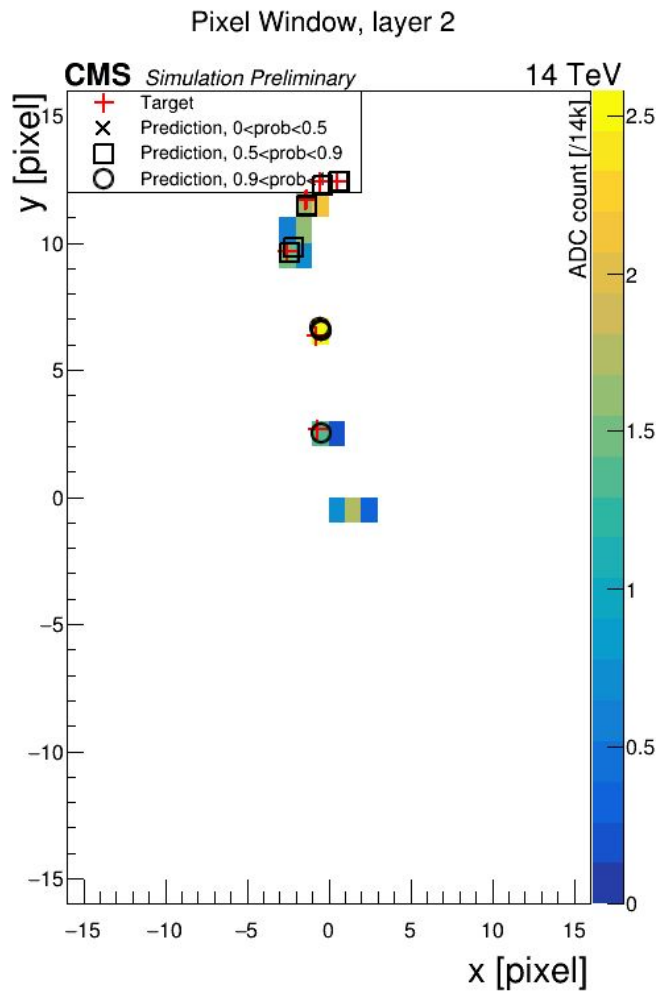
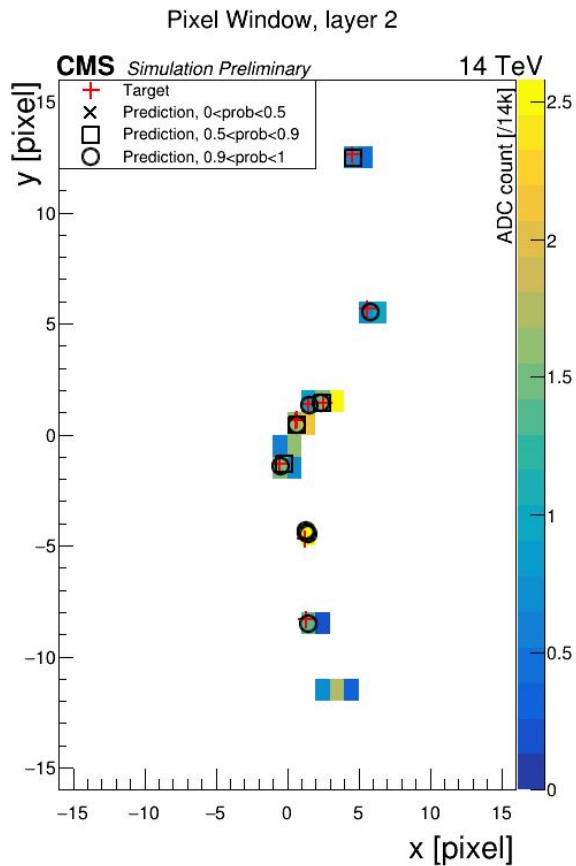


Pixel Window, layer 2



Pixel Window, layer 2





Pixel Window, layer 2

