



MTA: MeV Test Area

Jason St. John

Friday 9 O'Clock

2021 Mar 12th

MTA Beam Sign Selection Commissioned

With the beam spot focus tight (~ 0.5 mm sigma):

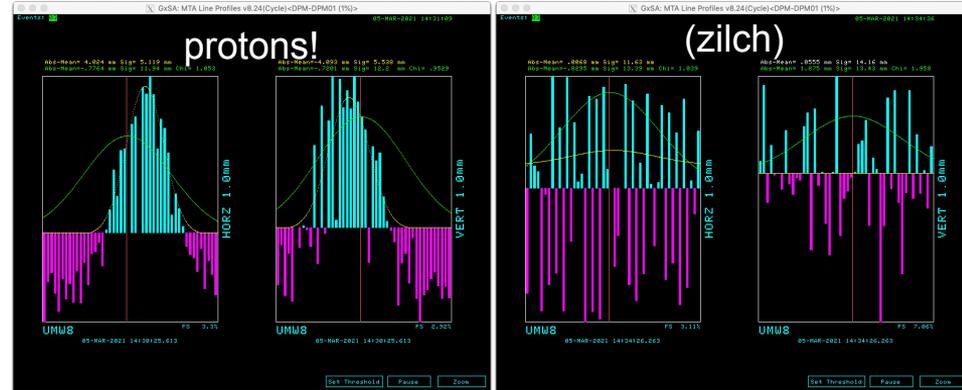
Nice to see that this works as expected: Flip foil, you have to flip magnet polarities downstream.

Some instrumental effect giving negative-going tails to the positive-going gaussian peaks. Still to be understood.

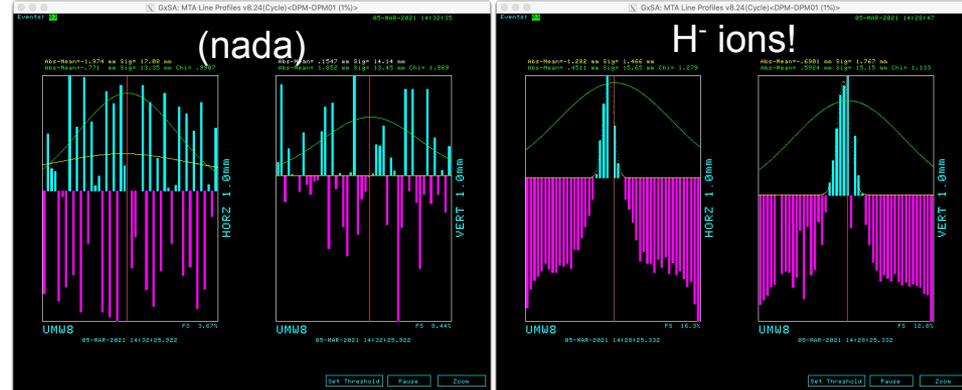
E:UVB12 @ -40 A

E:UVB12 @ +40 A

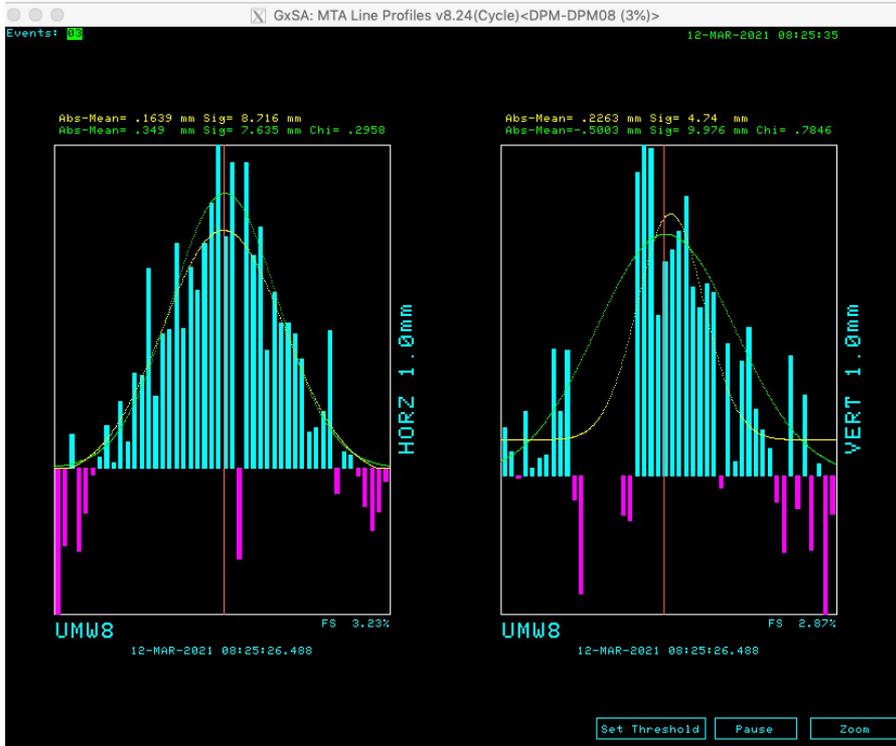
Foil: IN



Foil: OUT



MTA Commissioning Status



Adjusted beam spot size to requested 10 mm sigma Gaussian fit in x and y.

Experiments checking what spot size they see now, using both metal foil activation arrays and a purpose-built PIN-diode array.

Goal is to understand spot size calibration to within tolerance of ITA users.