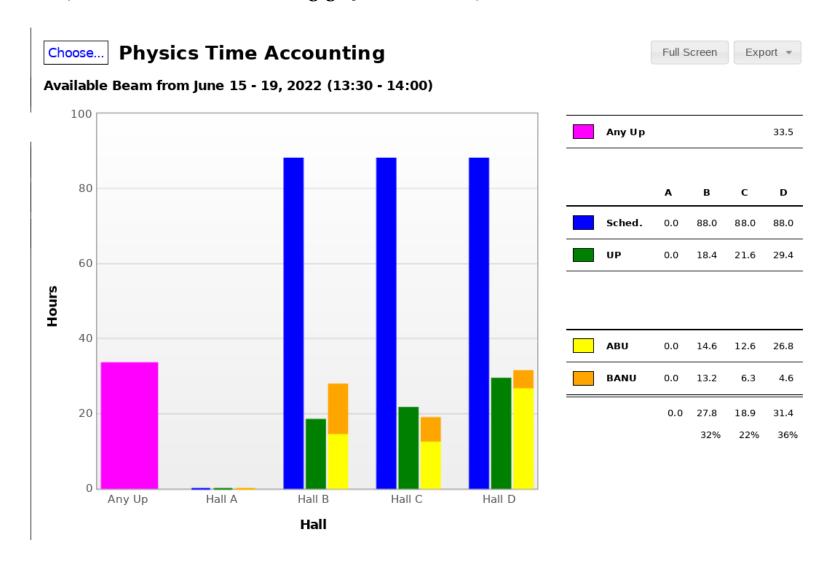
Run Group C Status 6/20/2022

Beam time

Very little beam time Wed 13:30pm to Sun 14:00



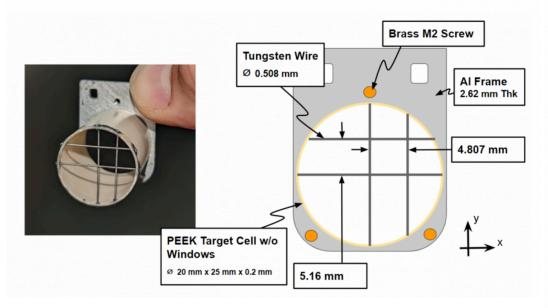
Raster

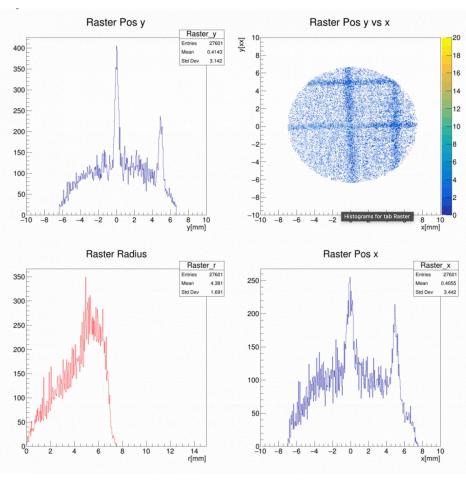
• Power supply issue: 4A modulation at high current

Changed the raster target to asymmetric design/thicker wires

• Raster calibration: 2.8 V Vpp in x and 2.4 V in y corresponds to a

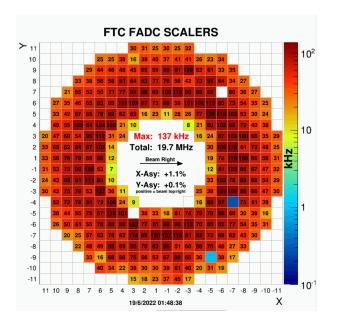
raster radius of r = 7 mm.





Raster (cont)

- Occupancy vs raster size studies. Performed tests on C12 target changing the offset and checking R1 occupancies.
 - Found occupancies as high as 9% (sector 4) with offset +x 1V and 8%(sector 5) -y -1V at 5nA
 - 4 nA ~6.8% max occupancies
 - But the beam was off-center



Beam re-centered - no beam to do new studies since then

Status

- 2.2 GeV data 700M+ events on NH3 (6/13-6/15)
- 10.5 GeV beam energy 6/15
- Fixed Moller polarimeter issues
- Beam polarization 80% (need spin dance)
- Switched to C12 target (Sat 2 am)
- Luminosity scans: DC occupancy 4-5% on average at 4nA
- Completed trigger validation runs
- Completed HV scans
- Took 75M production data on C12
- Switched NH3 target (Sunday 2 pm)