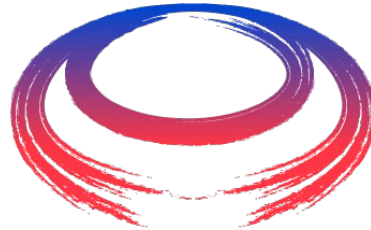




Demonstrator Magnetic Lattice



M International
UON Collider
Collaboration

C. T. Rogers

Rutherford Appleton Laboratory

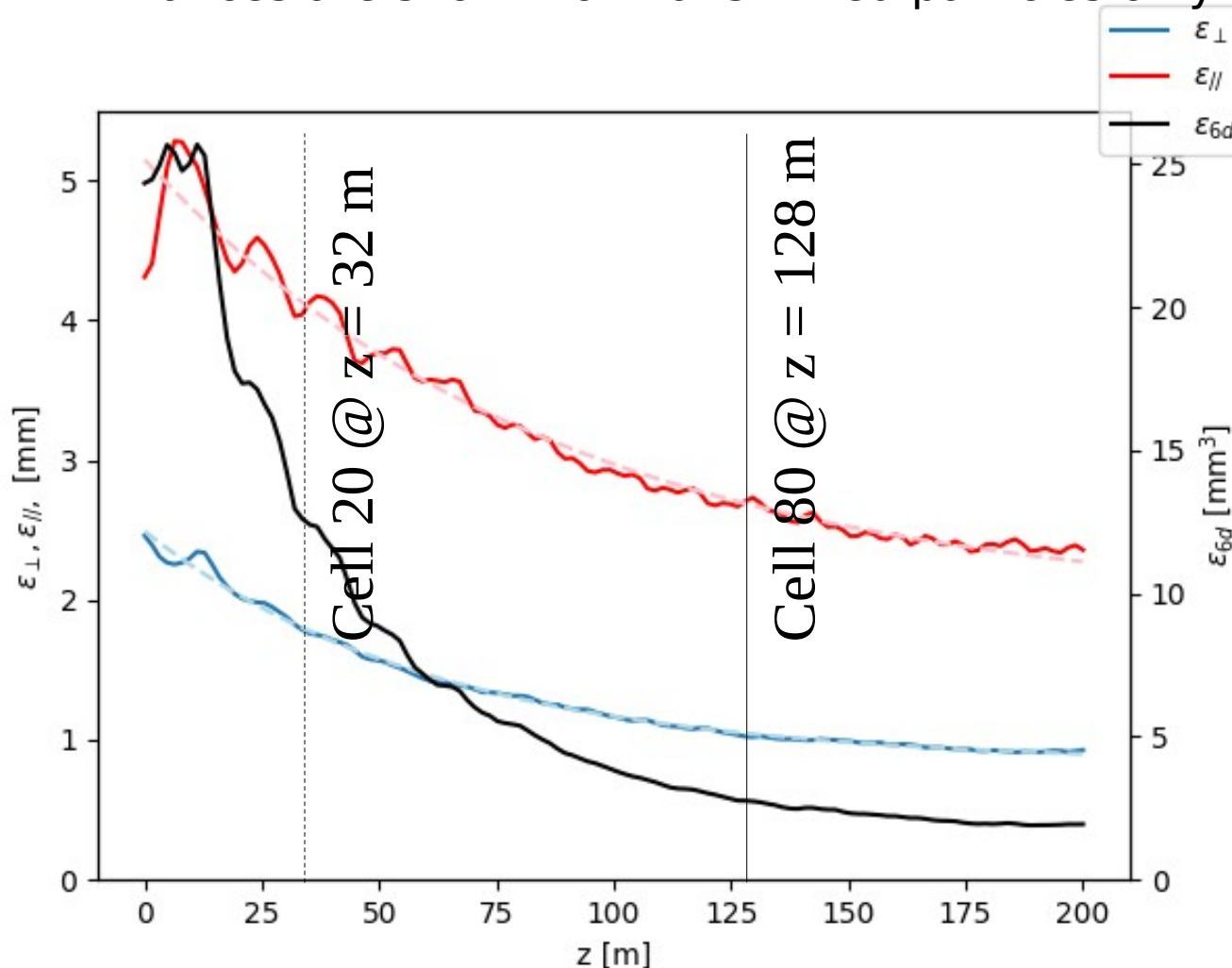


Science & Technology Facilities Council

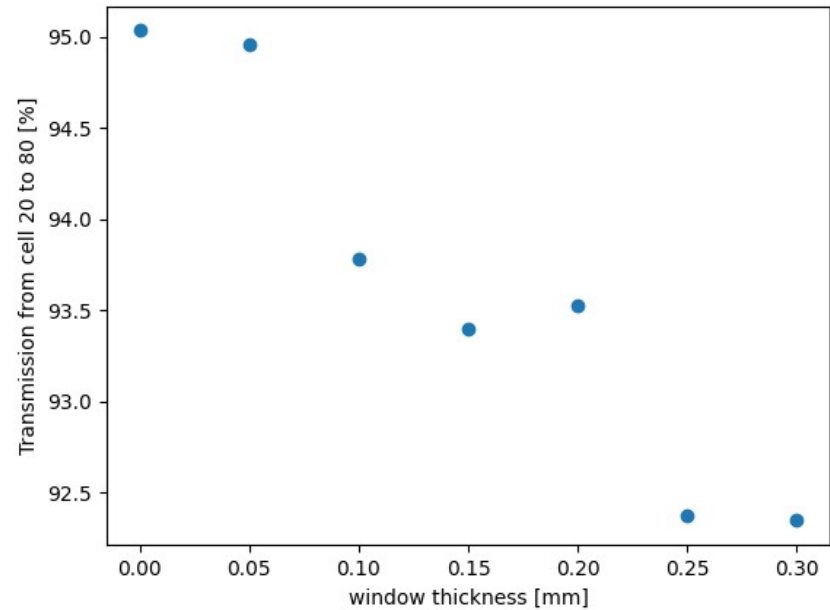
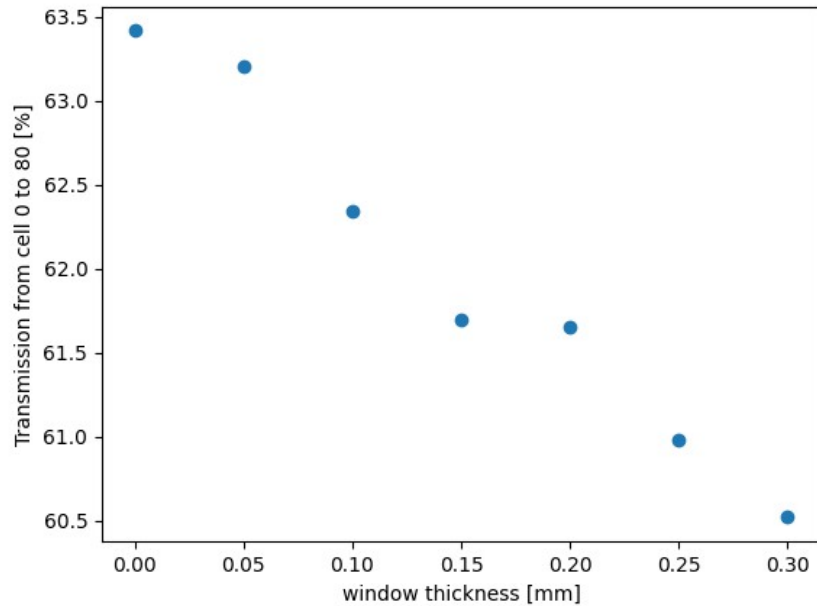
ISIS

Addendum

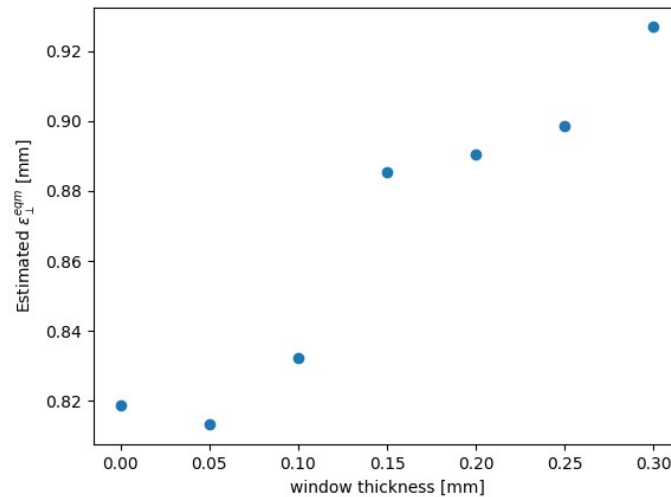
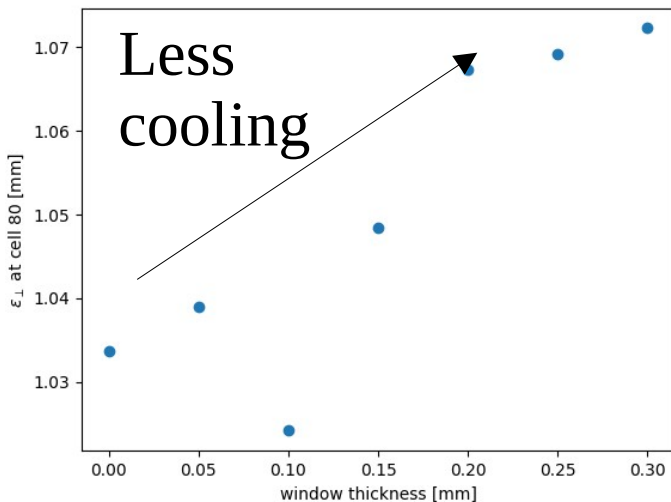
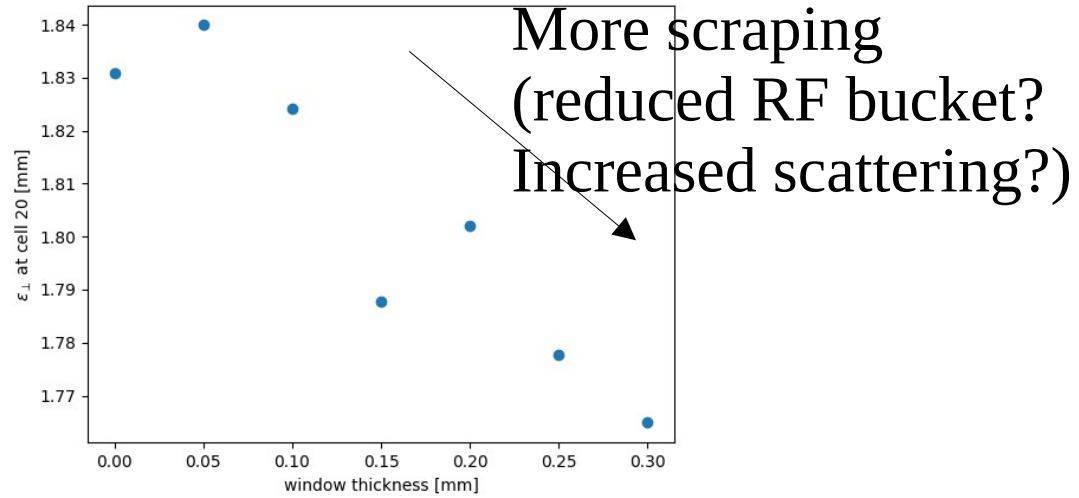
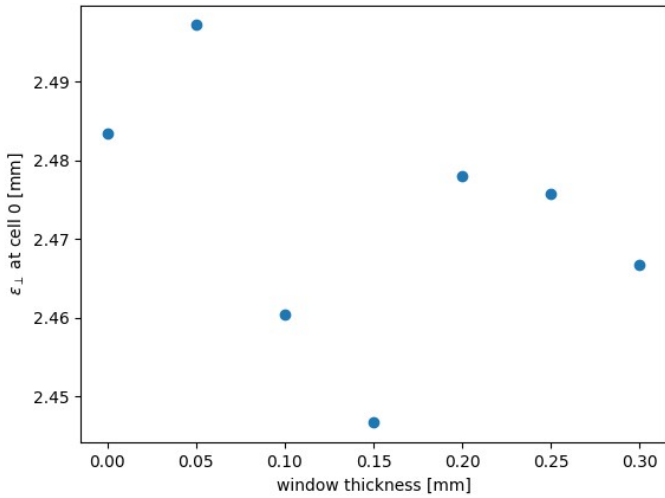
- Addendum – window thickness (in light of higher stats job finishing)
 - 10k events per simulation (about 4-6 hours to run on 1 core)
 - Emittances are shown for transmitted particles only



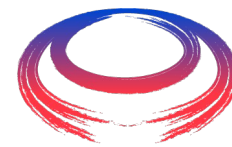
Transmission



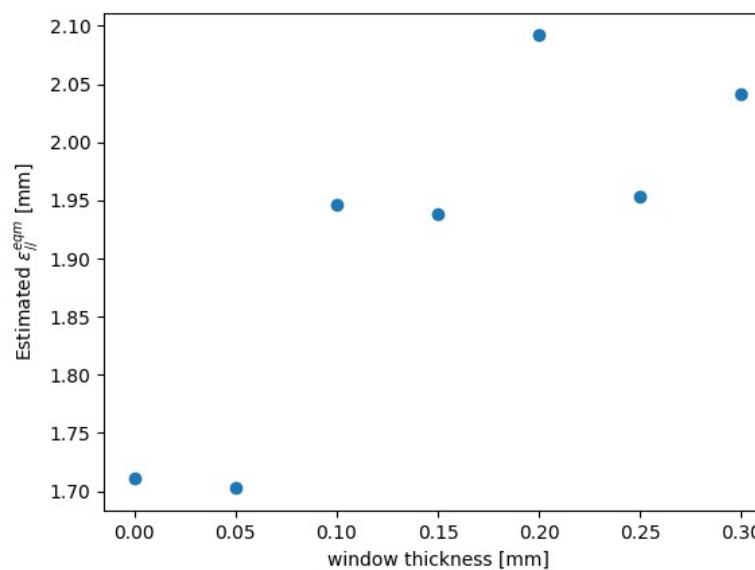
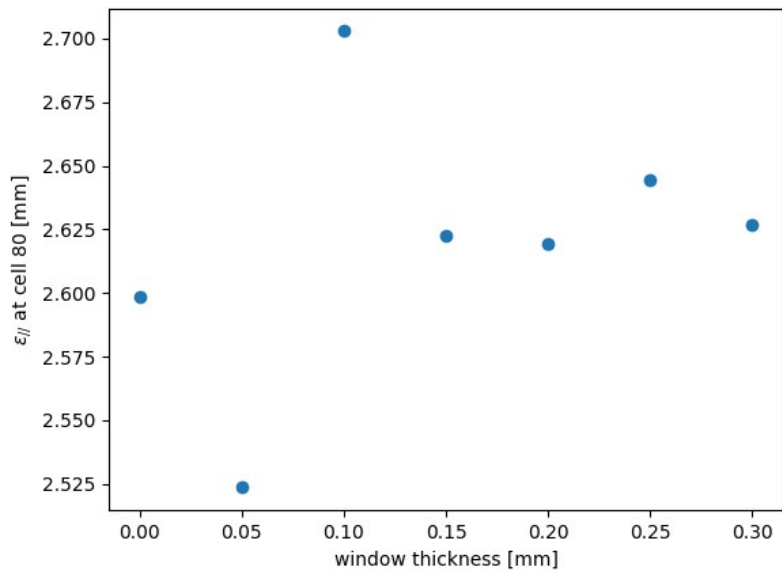
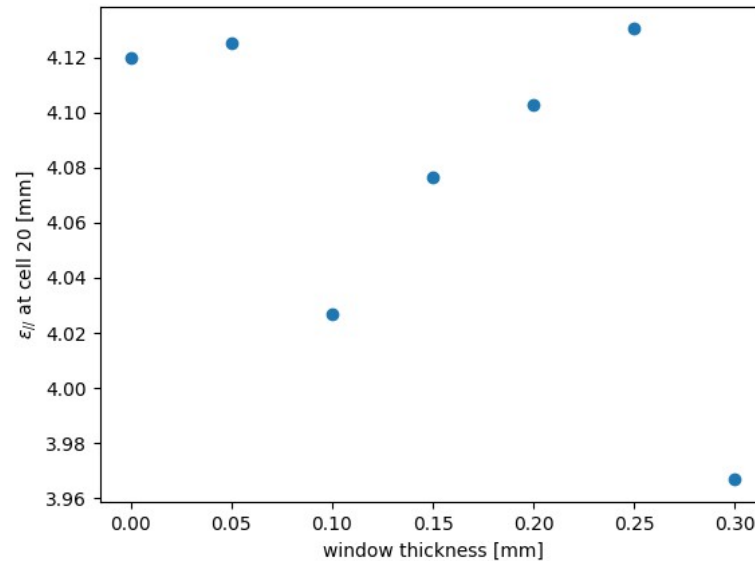
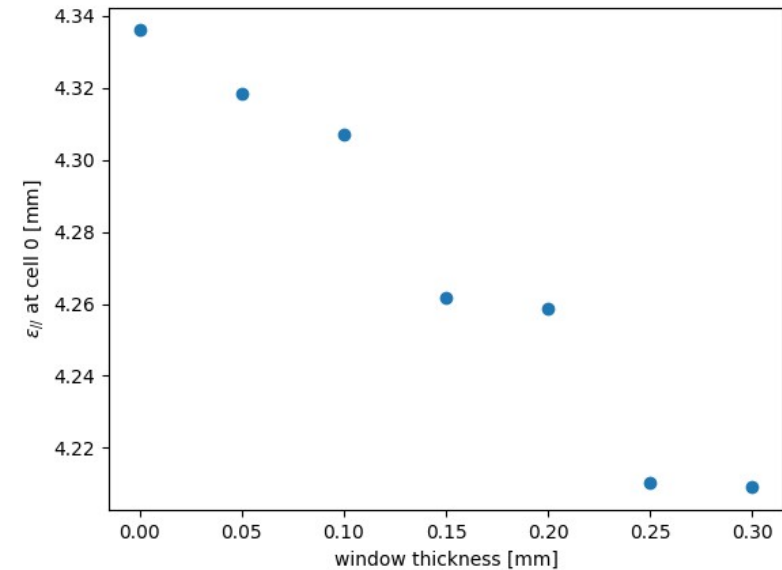
Transverse Emittance



Longitudinal Emittance



International Collider Association





Conclusion

There is a degradation on performance from window thickness so we should keep them as thin as possible; but it is not terrible, below 300 micron thickness. If they need to go thicker I will have to do more studies.