

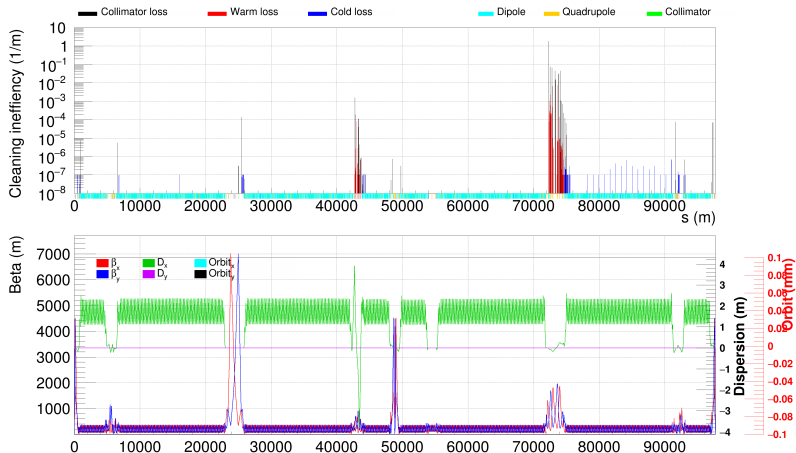
# FCC-hh collimation loss maps with the latest lattice

J. Molson, R. Bruce

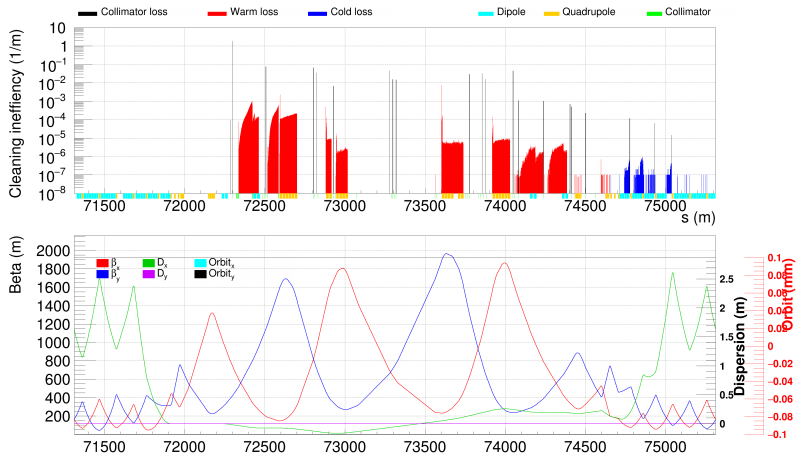
March 21, 2019

- This talk is as shown in the collimation meeting on 2019-03-18.
- Have updated all CDR simulations to use lattice V10.
- Also have run with the updated TCDQ model (thanks to A. Lechner).
- Will also soon re-run the extraction kicker pre-fire cases with the new TCDQ model + lattice.

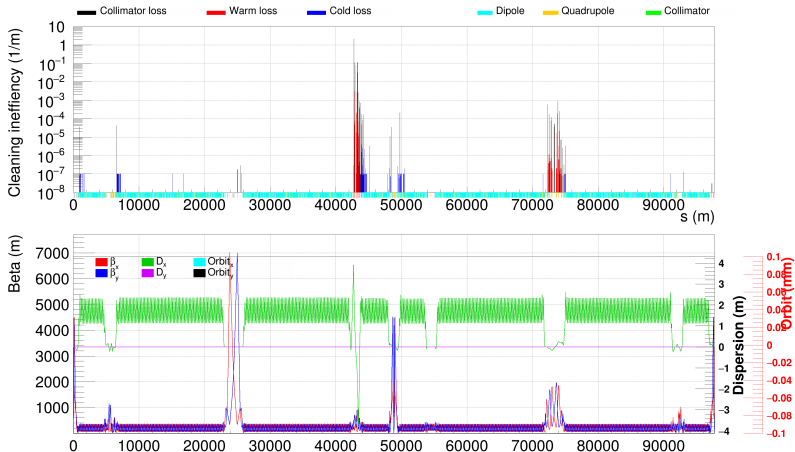
# injection - horizontal halo - full ring



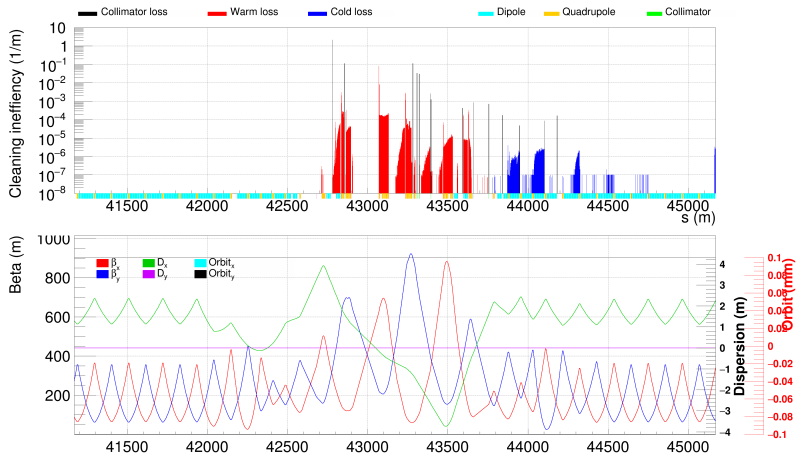
# injection - horizontal halo - betatron cleaning



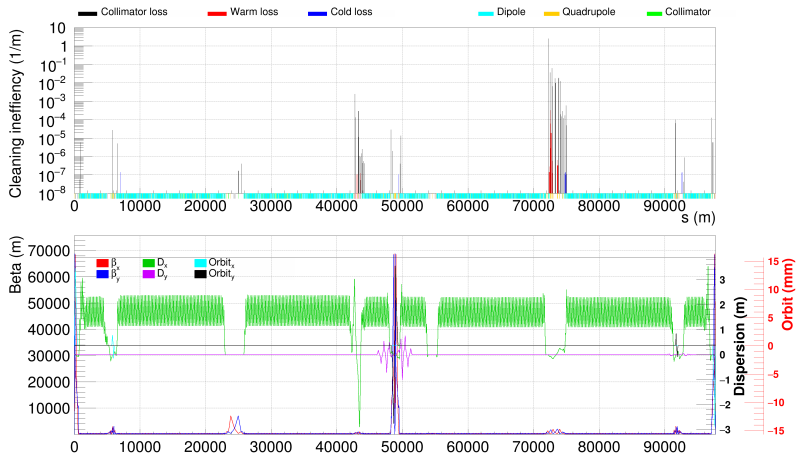
# injection - off momentum halo - full ring



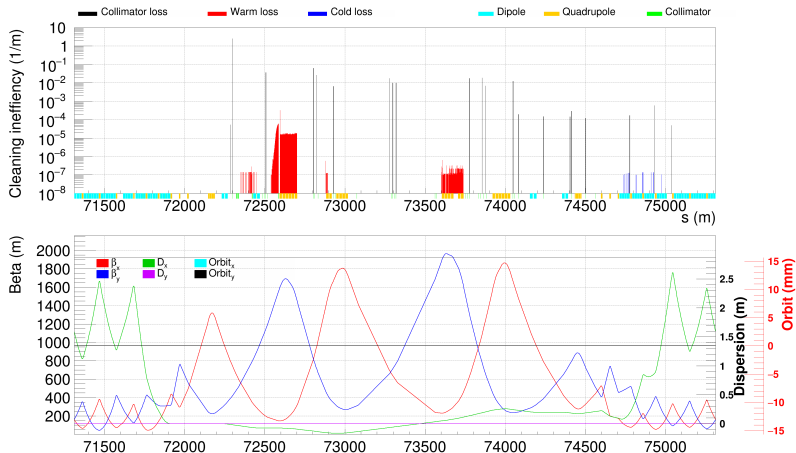
# injection - off momentum halo - momentum cleaning



# collision - horizontal halo - full ring

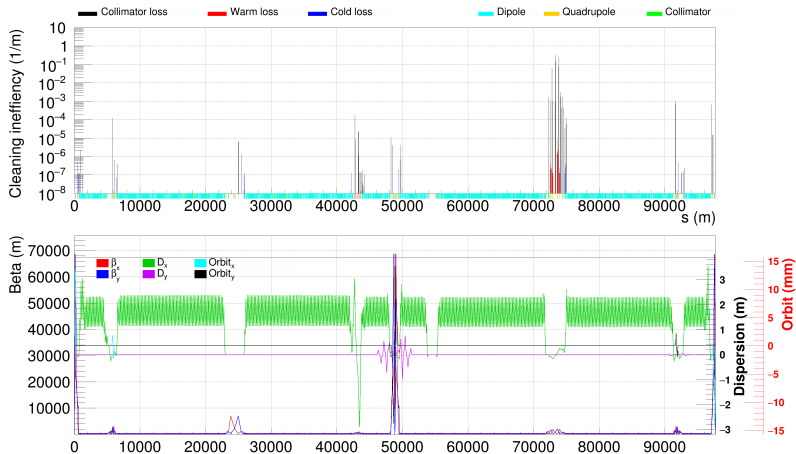


# collision - horizontal halo - betatron cleaning

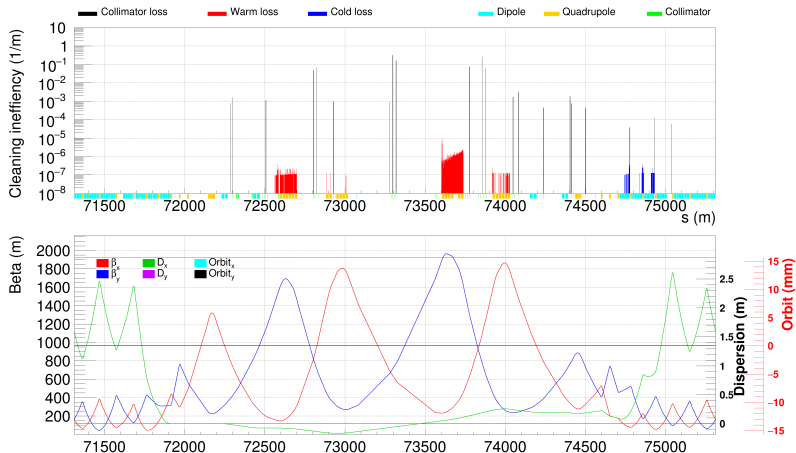




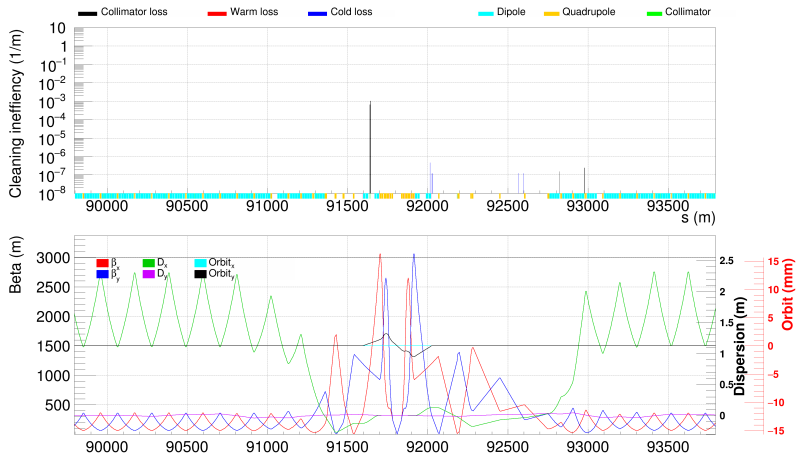
# collision - skew halo - full ring



# collision - skew halo - betatron cleaning



# collision - skew halo - IPL



# Summary

- Looking good.
- Still need to add in TCL collimators after each experiment (before D2).
- For the CDR, some more work needs to be done to persuade root to generate reasonable pdf output - png is perfect.