

Status of off-momentum collimation studies for FCC

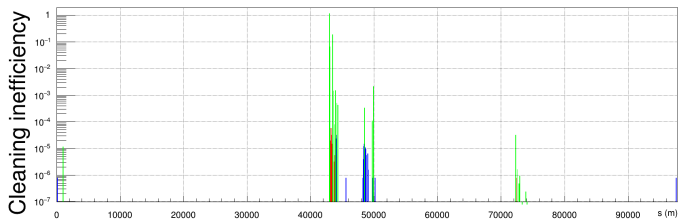
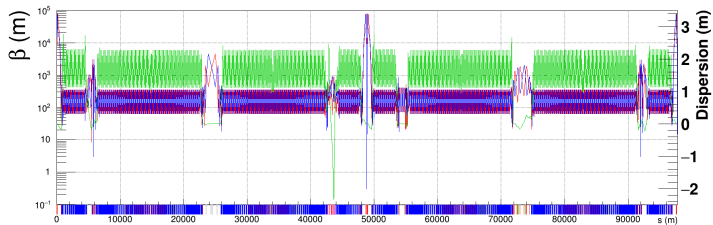
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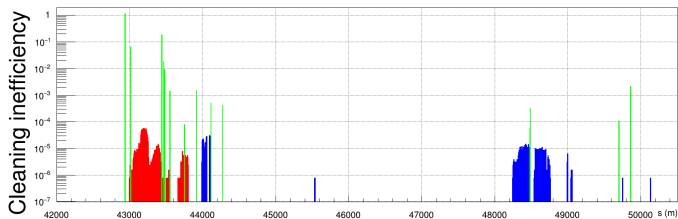
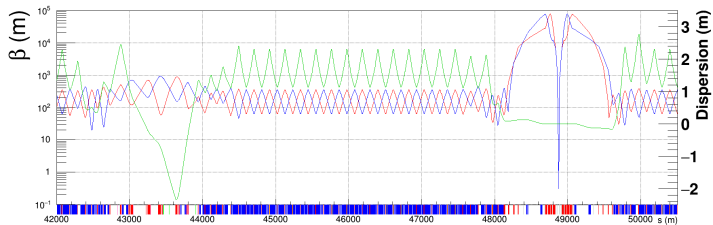
Brief energy collimation status

- The collimation system has been taken as a scaling from the LHC.
- Following loss map uses the current lattice.
- DS collimators are in and enabled.
- TCP - 18.06σ , TCSG 21.67σ , TCLA 24.08σ , TCLD 35.14σ .
- 6.4 million protons, fixed $dp = -0.0015$. Tracking starts at IPA, 200 turns.
- More advanced simulations - i.e. RF frequency/phase ramping to come.

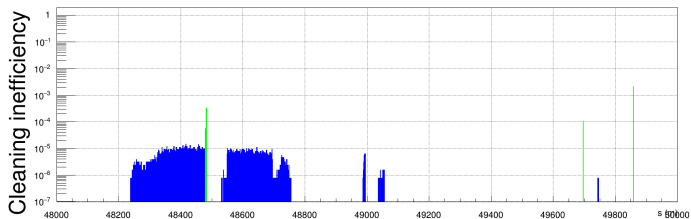
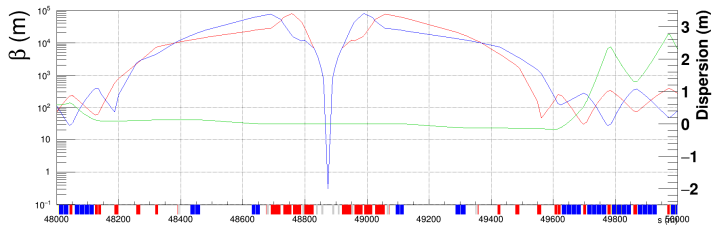
Energy loss map - full ring



Energy collimation insertion



Energy loss map - IPG



Betatron loss map - energy collimation insertion

