

Workplan

Working Group 1

Required Beamlines

- RTL (ring to linac geometry match)
 - Extraction geometry and beta match
 - Emit Diagnostic section?
 - Transverse collimation
 - (2 phases x 2 planes x 1 iteration)
 - Feedforward measurement
 - Turnaround
 - Spin rotator -- Jeff
 - Feedforward correction
 - Emit Diagnostic and skew correction -- FJD

Beamlines (2)

- Bunch compressor -- PT, ESK
 - BC1 RF
 - BC1 chicane(s)
 - Collimators for longitudinal DOF
 - Longitudinal diagnostics
 - Phase, sigz, correlations
 - BC2 RF
 - BC2 chicane(s)
 - Collimators for longitudinal DOF
 - Longitudinal diagnostics (same set as above)
 - Transverse emittance diagnostics
 - Transverse collimation inc. Linac protection (Frank?)

Beamlines

- Linac -- Daniel
 - 1 intermediate diagnostic station
 - At optimal point defined by filamentation of initial energy spread
 - Until further notice
 - Look at dispersion bump interaction with LRWF
 - Wake bumps

Post-linac -- to be delivered by WG4 and checked for completeness

- Diagnostic and coupling correction section
 - 2d emit only (for now)
- Beam switch yard and extraction system
 - If there are 2 IPs
- Collimation
- FF with octupole doublets and all that stuff
- Detector with luminosity monitor
 - Solenoid etc
- Spent beam line inc. Lumi energy pol diagnostics

Static Tuning and Alignment

- Bunch compressor -- PT
- Main linac -- Kirti, Jeff, Kiyoshi, Daniel, Peder, Andrea, Nicolai
- BDS -- Glen, Peder, Daniel, Mark, Kuroda, James
- Integrated studies -- all

Feedback

- Bunch compressor
- Main Linac
- BDS
- Integrated studies

Flight Simulator(s)

- Full integration of dynamic and static effects across all sub-systems -- all