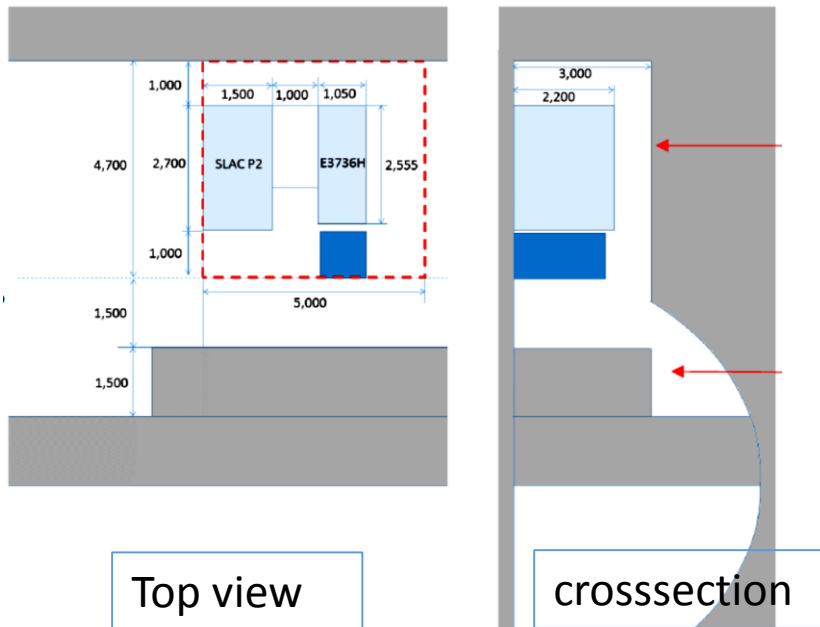


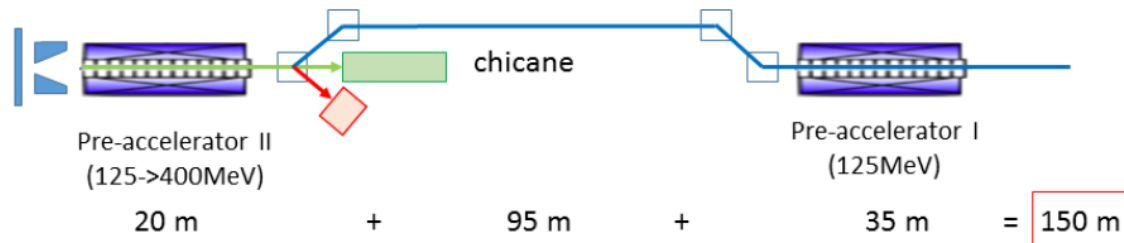
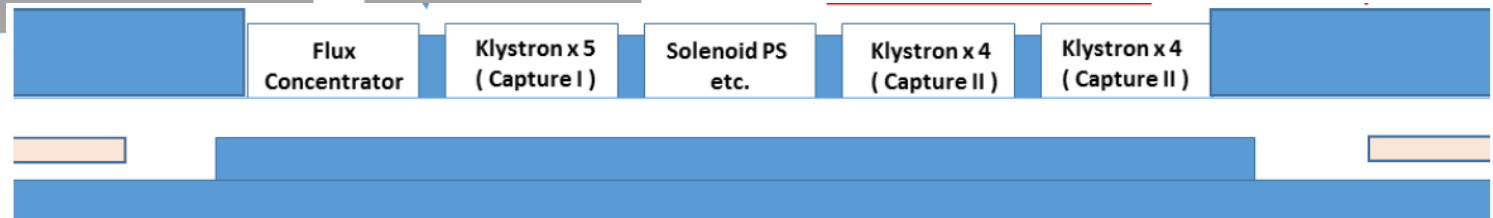
ADIJ Report (2015.0805, KY)

- Before studying the possible tunnel layout for the conventional source, the tunnel for the undulator source must be discussed in some more detail than in the TDR.
- Okugi-san reviewed the undulator source and studied the possible tunnel configuration, including
 - Linac hardware (NC, SC and quads) based on TDR
 - Tunnel in NC linac region
 - Distribution of refrigerator
 - Optics in undulator region with quads
 - Optics and loading compensation of energy compressor
 - Chicane for timing adjustment

Suggestion for the tunnel in NC linac region

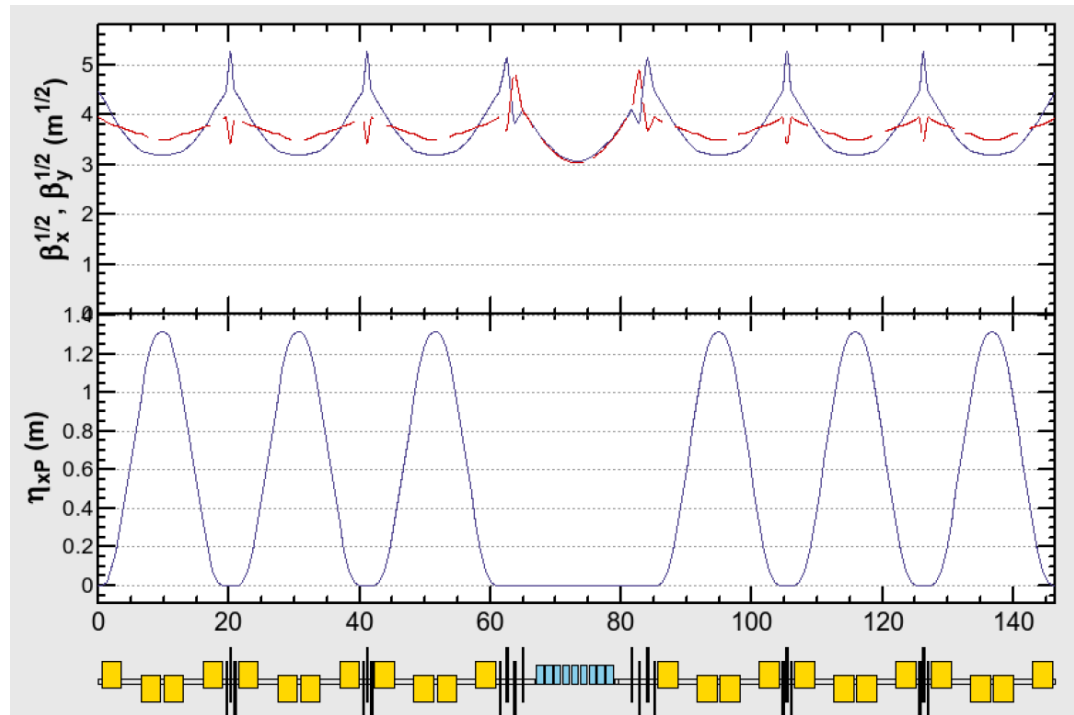


Width extension needed
(on top of linac tunnel size)
5m(w) x 3m (h) x 150m (L)



Path Length Aduster

- Better to place after the energy compressor (minimal effects on longitudinal phase space)
- Width 1.2 meters, length $\sim 60\text{m}$ (same structure as the energy compressor)
- Adjustment range 0 to 68cm

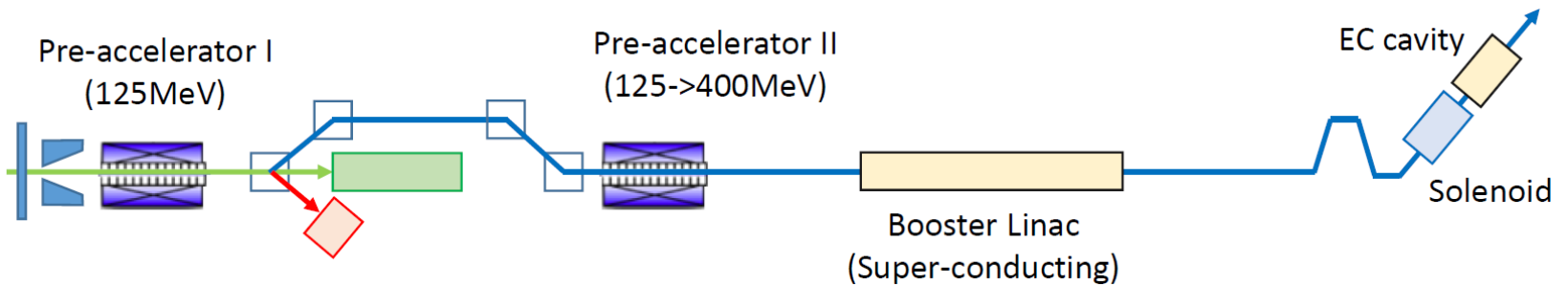


Solenoid in Spin Rotator

- Question: what about NC solenoid (don't want distant transport of refrigeration line)
 - 0.65T x 40m (e.g., 8x5m) to be compared with 5.25T x 5m SC in TDR
- Question: spin flip for polarized positron
 - Parallel solenoid line needed?
 - No description in TDR

Layout Summary

- TDR



- Possible revision

- “High Energy Transport Line” is, perhaps, long enough to accommodate e-Driven source.

