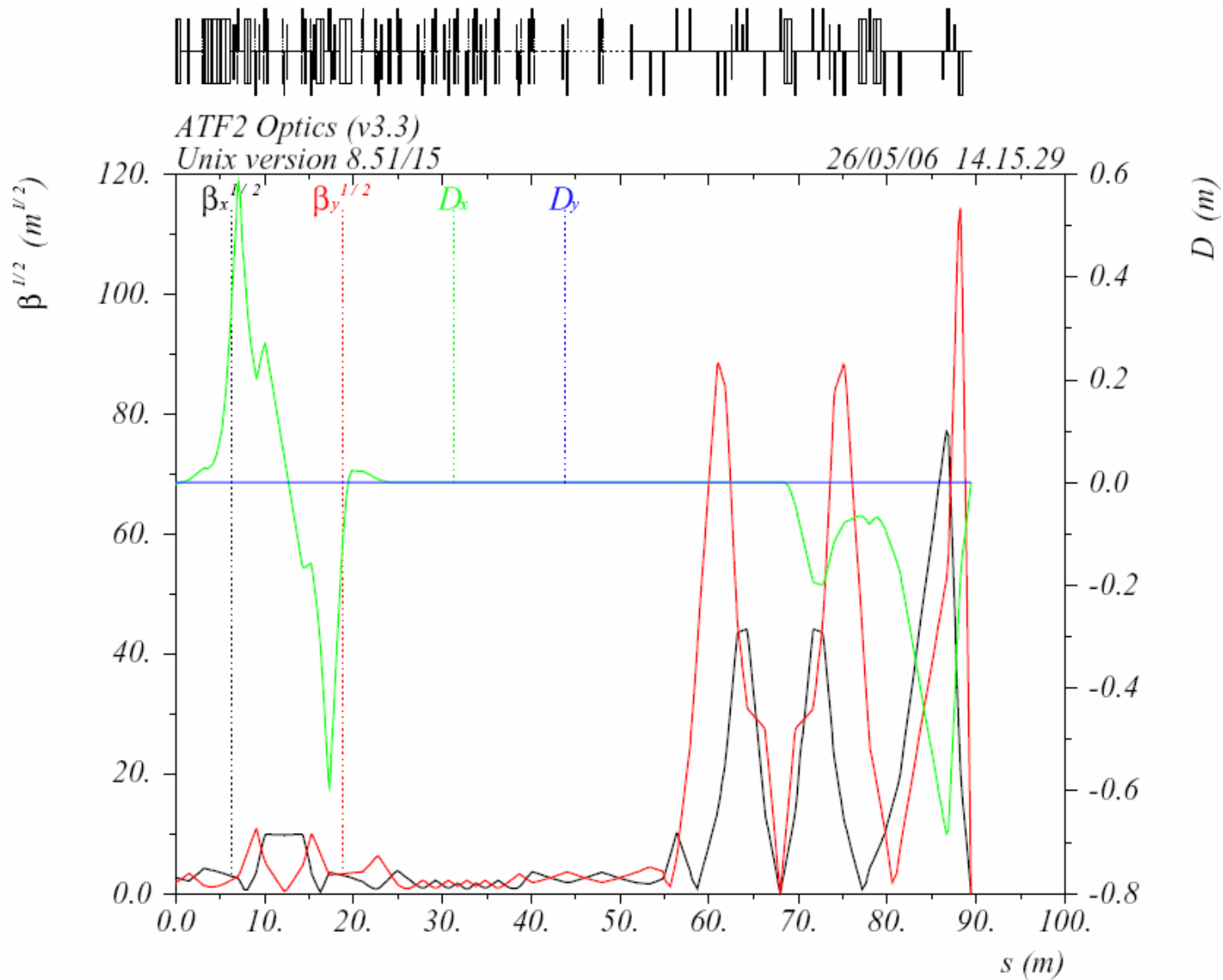




# Summary on optics & layout







## Optics v.3.3 features & to do list



- Optics have much smaller dispersion and good symmetry, to ease emittance preservation of extracted beam
- Spacing in FF were adjusted to provide space for movers
- Optics provide good bandwidth
- Correction of vertical dispersion without producing coupling is being studied and configuration of skew quads may need to be modified
- Layout for construction (=location and strength of bends & position of dump) should be fixed before end of June
- Several modifications still need to be checked, e.g. drift after the dump, space between B5 & QD6, spacing in FD for final design of the sextupoles and BPMs, location of collimator and its effect be studied



# Study of tolerances



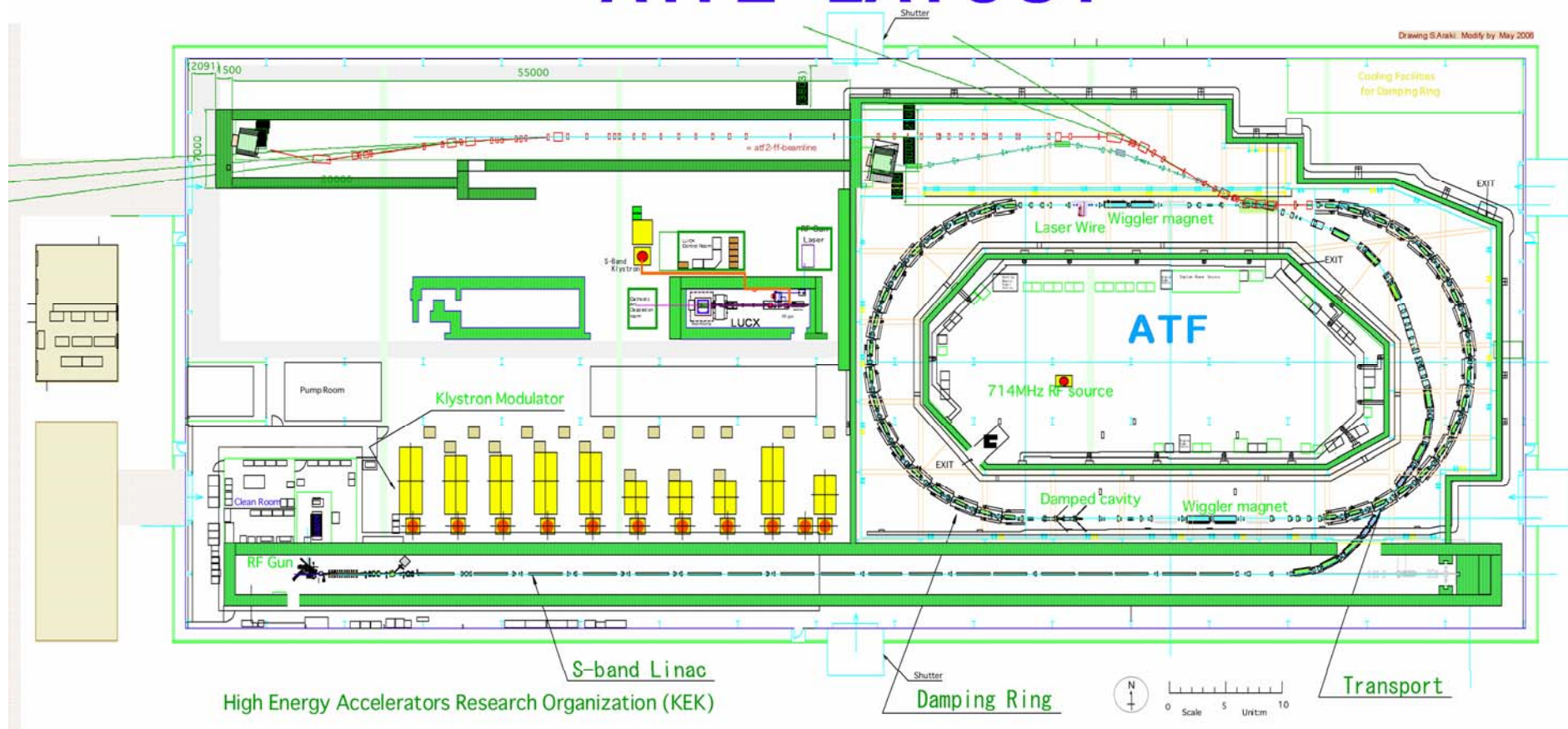
- Detailed study of tolerances for strength, field quality, and studies of corrections
- Need more attention to studies of skew sextupoles in particular. Will look for oncoming results of magnetic measurements. May need to create more advanced method of skew sextupole correction
- Need to develop tuning and correction methods with higher order knobs as well



# Tentative layout with v.3.3



## ATF2 LAYOUT



High Energy Accelerators Research Organization (KEK)



## Layout to do lists



- Layout is being matched to latest v.3.3 optics.
- Contracts for floor need to be prepared
- Shielding need to take into account possible places of beam loss such as collimation
- Width of the tunnel inside need to provide space for equipment, in particular laser wire and BSM