

Six Cavity Test 8.

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January 6, 2010

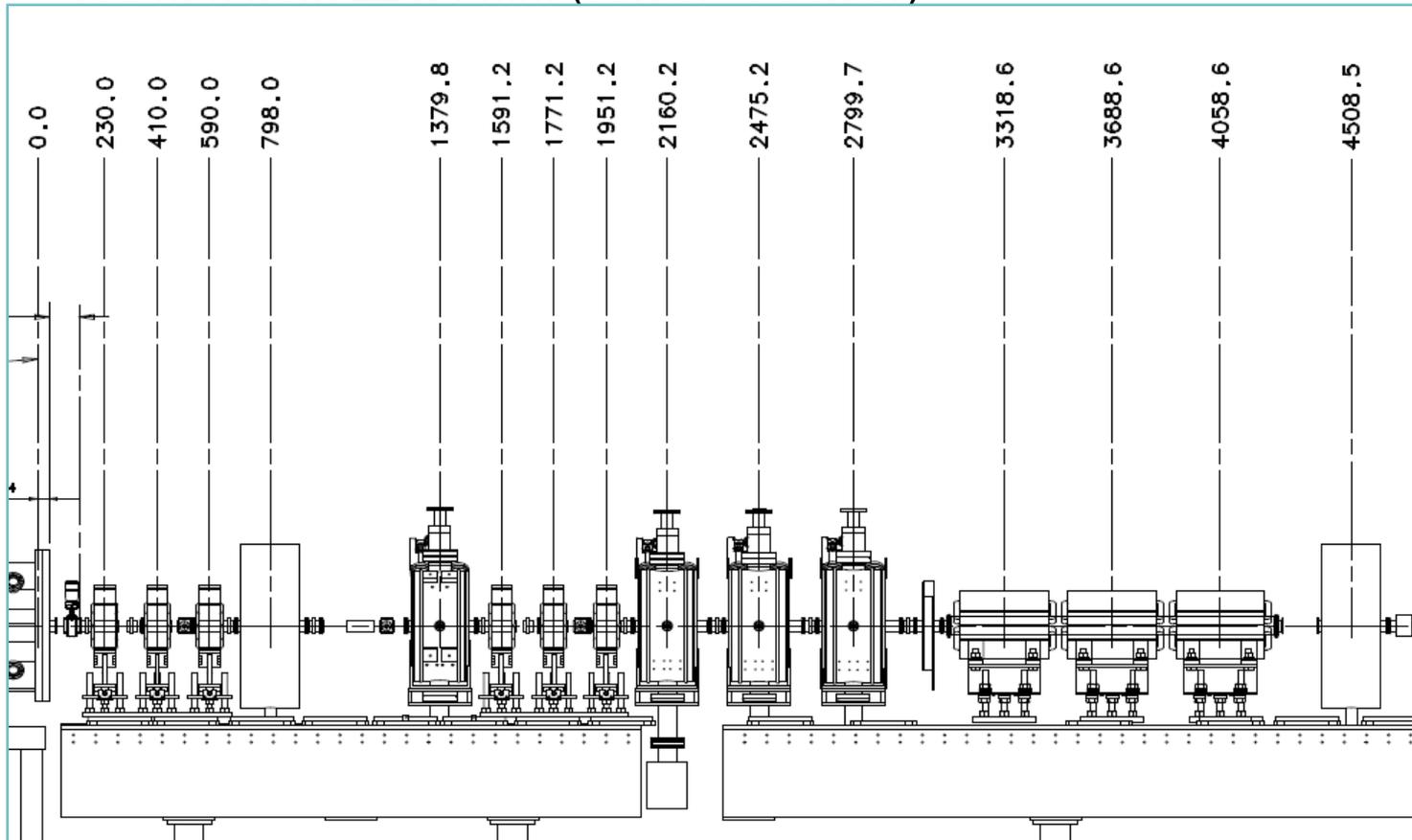
New data on tolerances

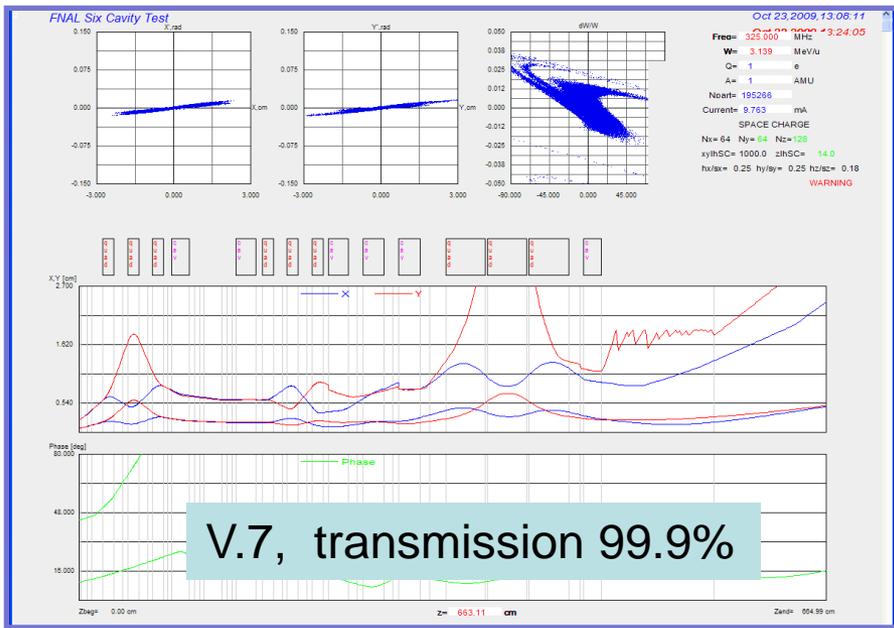
- Tilt of quadrupole axis. Unfortunately TRACK doesn't have that option.
- Rotation of quadrupole around beam axis. Since we keep beam axis-symmetric, the beam losses along line are quite insensitive to this deviation (first triplet, random Gaussian):
 - At 4σ of 5° the losses don't exceed 2%
 - At 4σ of 10° the losses don't exceed 6.5%

Iteration 8 (received on 12/16/2009 from Bruce Popper).

Main changes compare to v.7:

1. Distance from vane tip to first quad center is decreased from 261 mm to 230 mm (history: v.1-5 – 217 mm, v.5-7 – 261 mm, v.8 – 230 mm)
2. Distances between the centers of HEL quadrupole lenses are back to 180 mm from 221.4 mm (center to center)





Only first triplet has been retuned. (now it's close to v.3), since other changes are minor.

