Closed orbit and phase advance vs. momentum spread using PTC by Etienne Forest.

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November 8, 2002

I. 150MeV FFAG

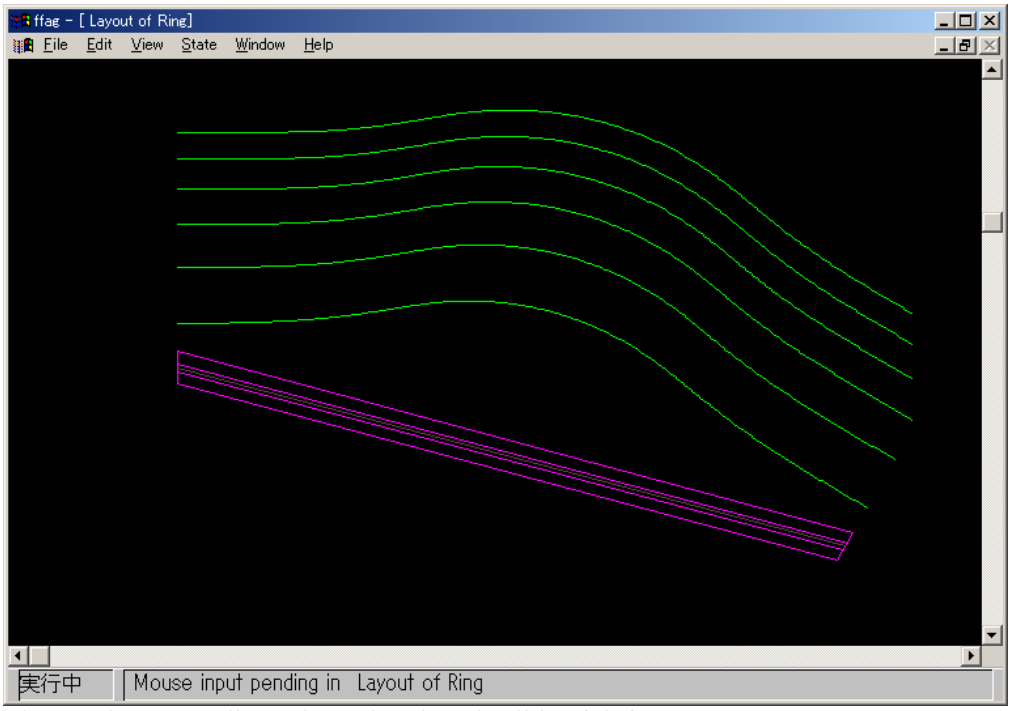

Fig. 1: Five green lines show the closed oribit of dp/p=0, 0.5, 1.0, 1.5, 2.0, 2.5, respectively. The reference kinetic energy is 15 MeV (proton).

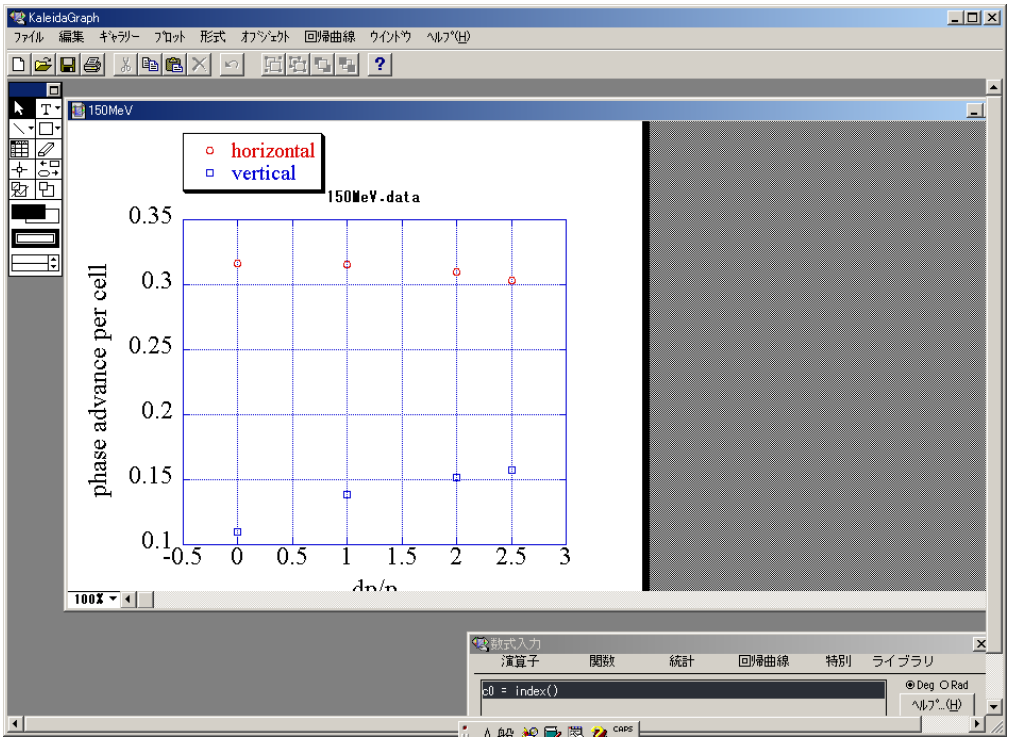

Fig. 2: Transverse tune as a function of momentum.

II. Carol with 1m drift

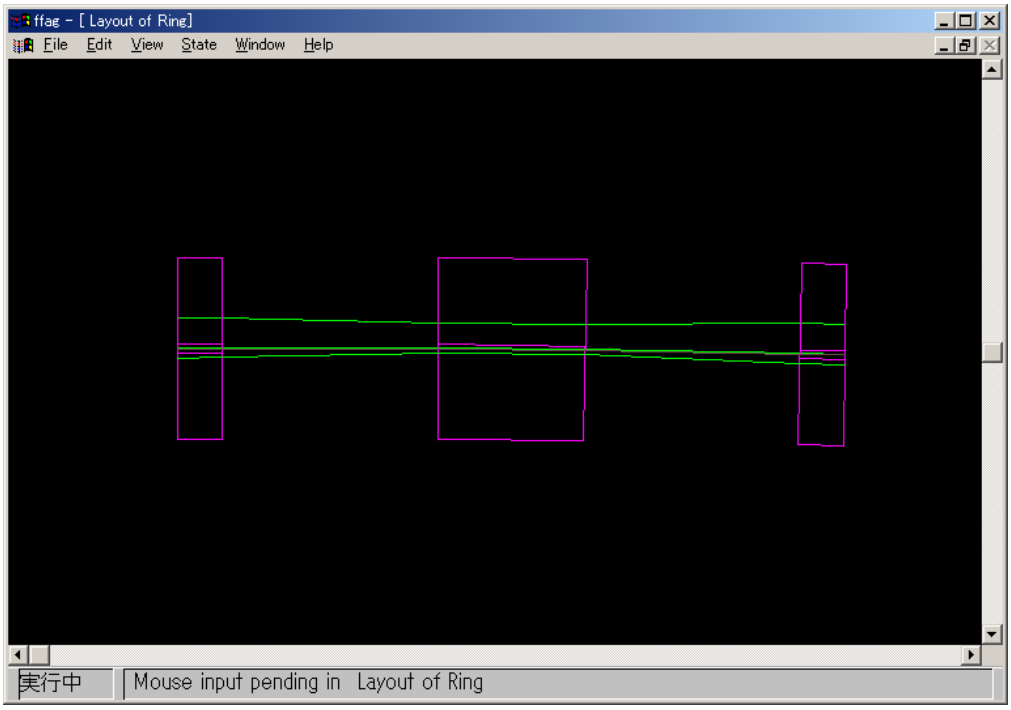

Fig. 3: Three green lines show the closed orbit of dp/p=-0.5, 0, 0.5, respectively. The reference momentum is 16.3 GeV/c.

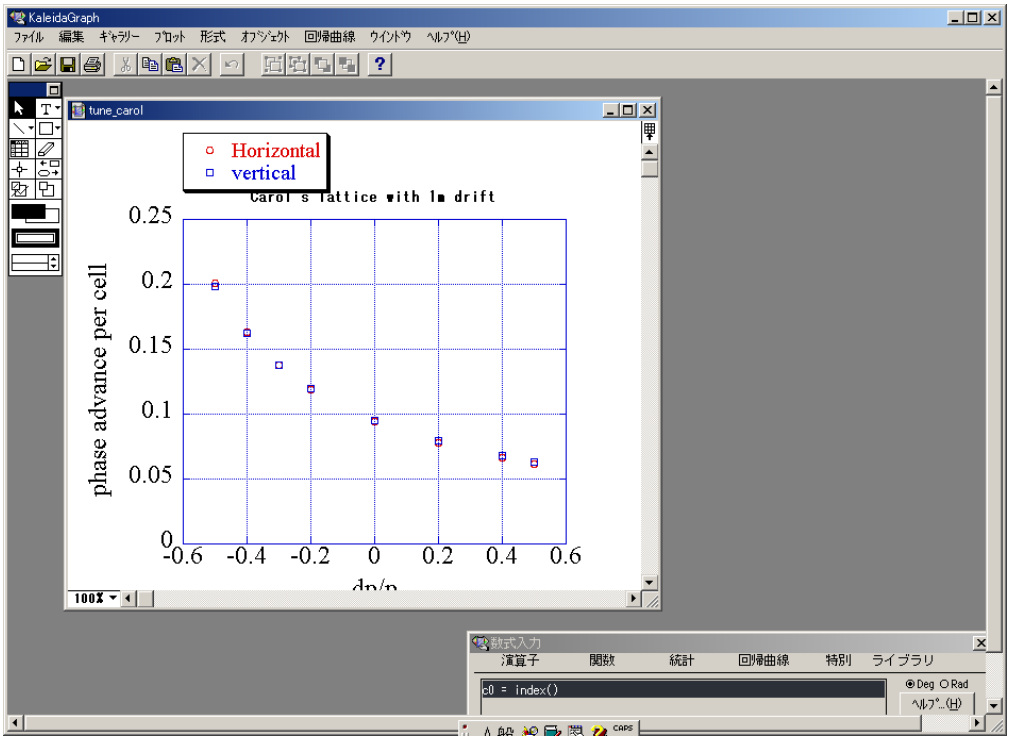

Fig. 4: Transverse tune as a function of momentum.

III. Dejan's

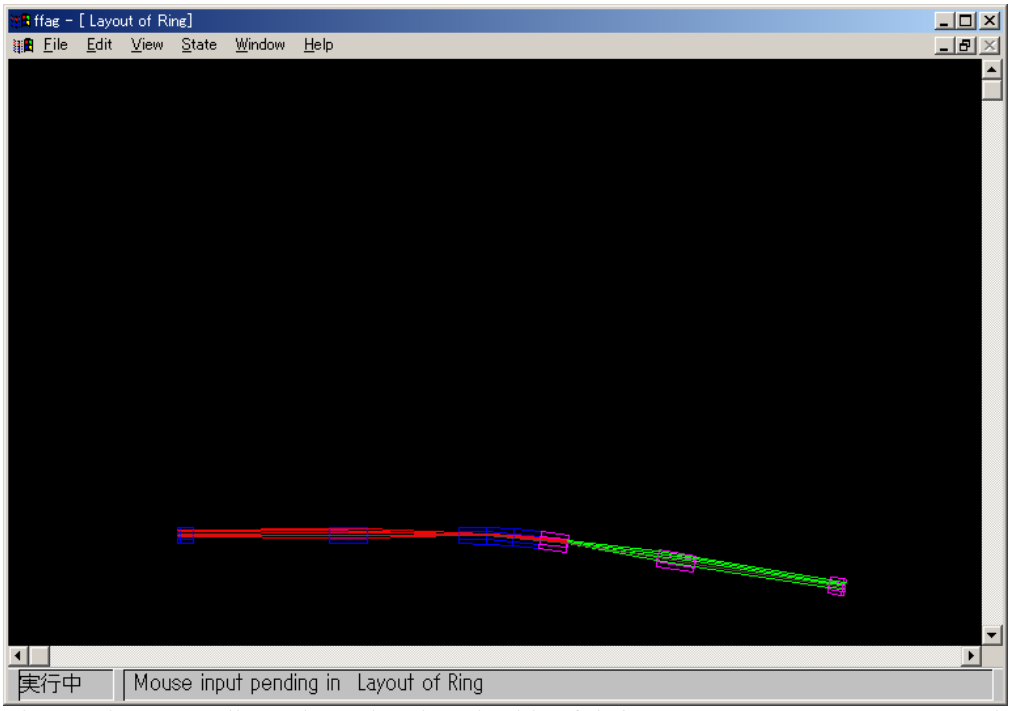

Fig. 5: Five green lines show the closed orbit of dp/p=-0.3, 0, 0.3, 0.6, 0.9, respectively. The reference momentum is 15 GeV/c.

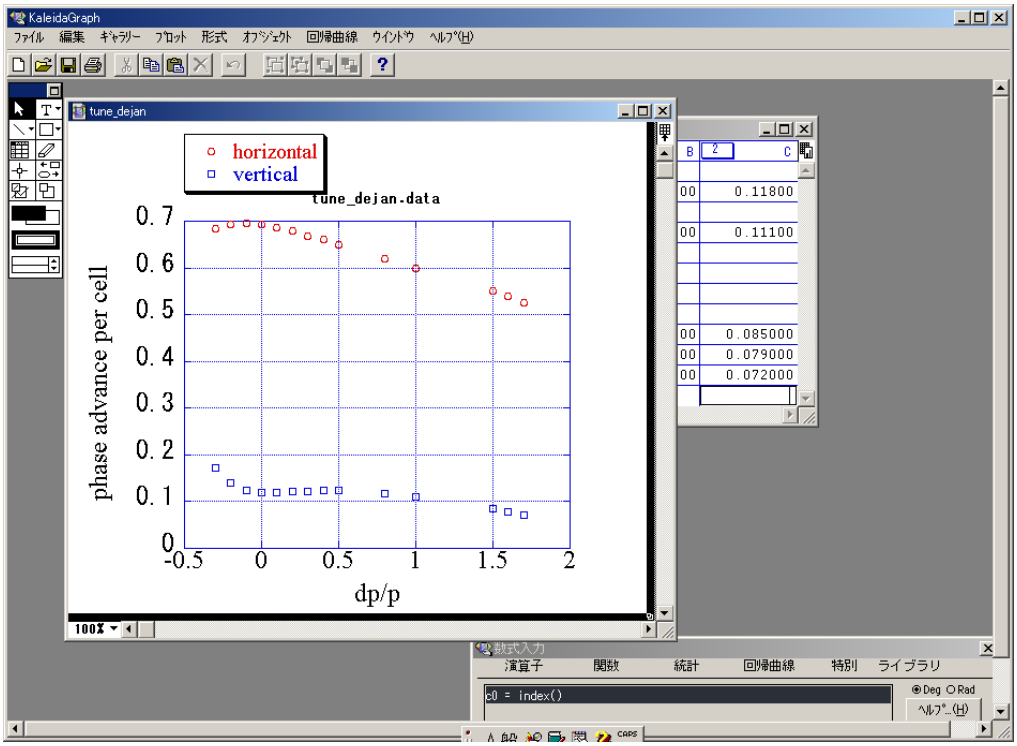

Fig. 6: Transverse tune as a function of momentum.

IV. Carol's Triplet

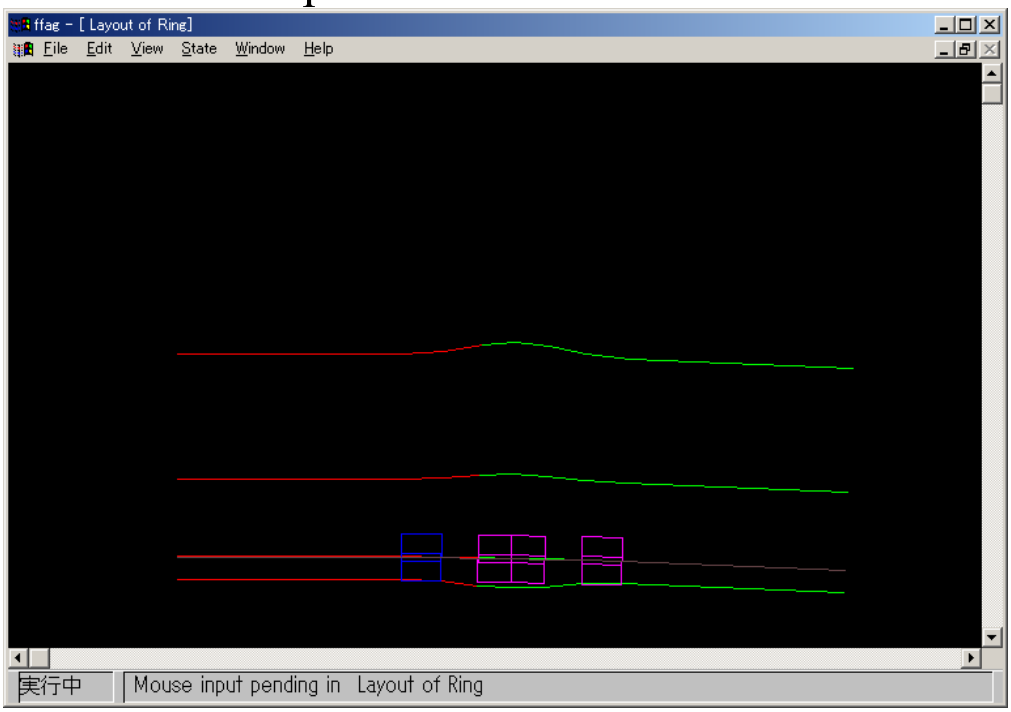

Fig. 7: Four green lines show the closed orbit of dp/p=-0.5, 0, 0.5, 1.0, respectively. The reference momentum is unknown.

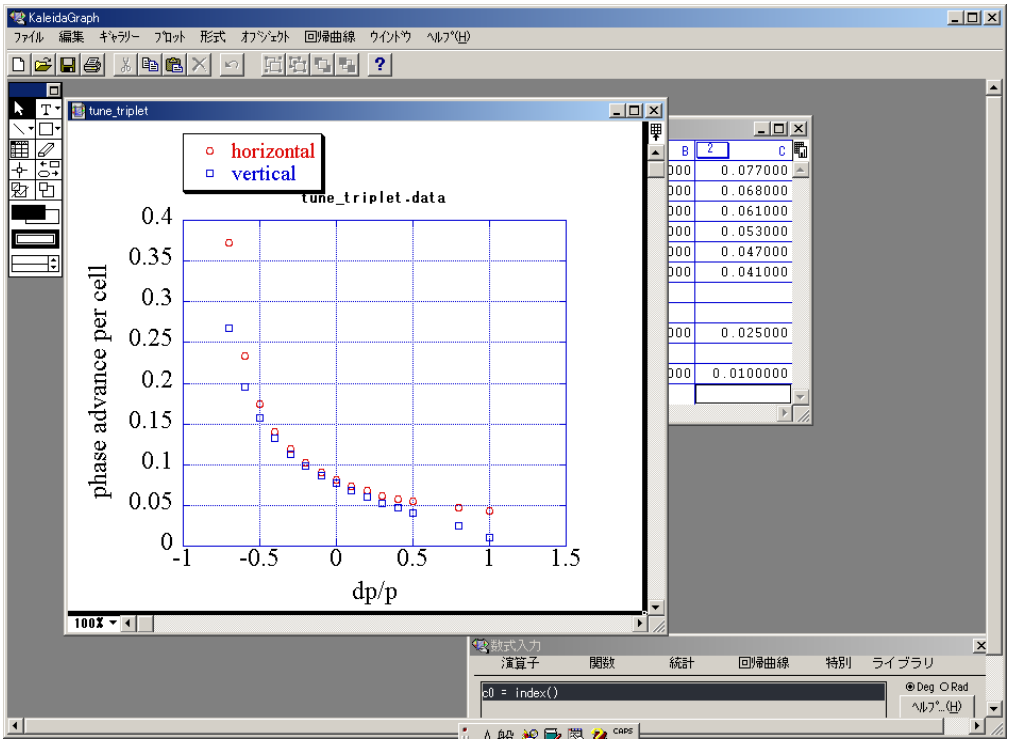

Fig. 8: Transverse tune as a function of momentum.