

GEANT 3.21 Simulations of Balbekov's Ring.

Last update.

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Ring Coolers/Emittance Exchange group meeting

Tuesday Jan 21

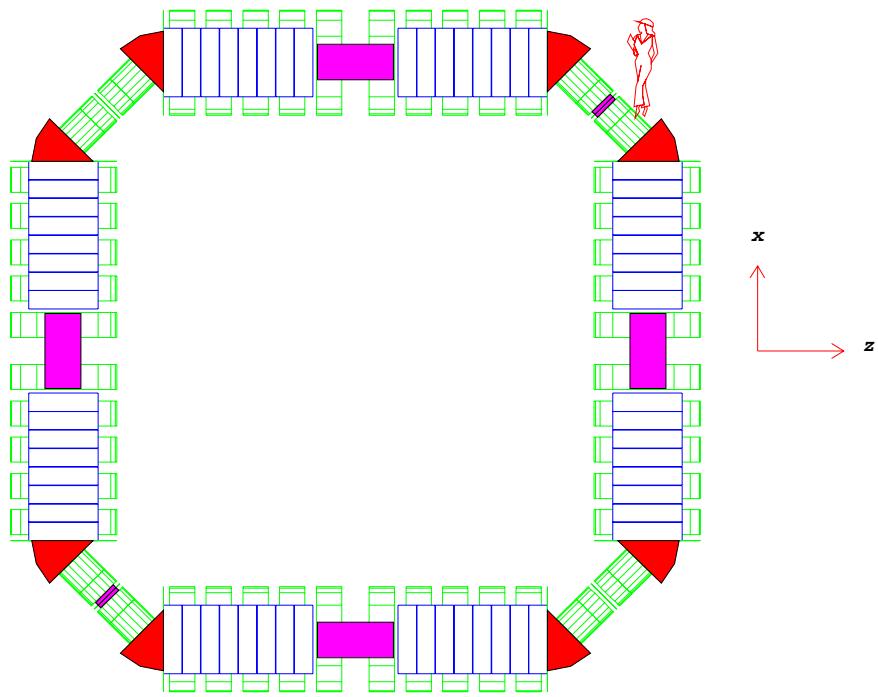


Fig.1 Cooler set-up

$$E_{tot} = 250 \text{ MeV}$$

$$\sigma_{E_{tot}} = 18 \text{ MeV}$$

$$\sigma_{P_y} = \sigma_{P_x} = 32 \text{ MeV}/c$$

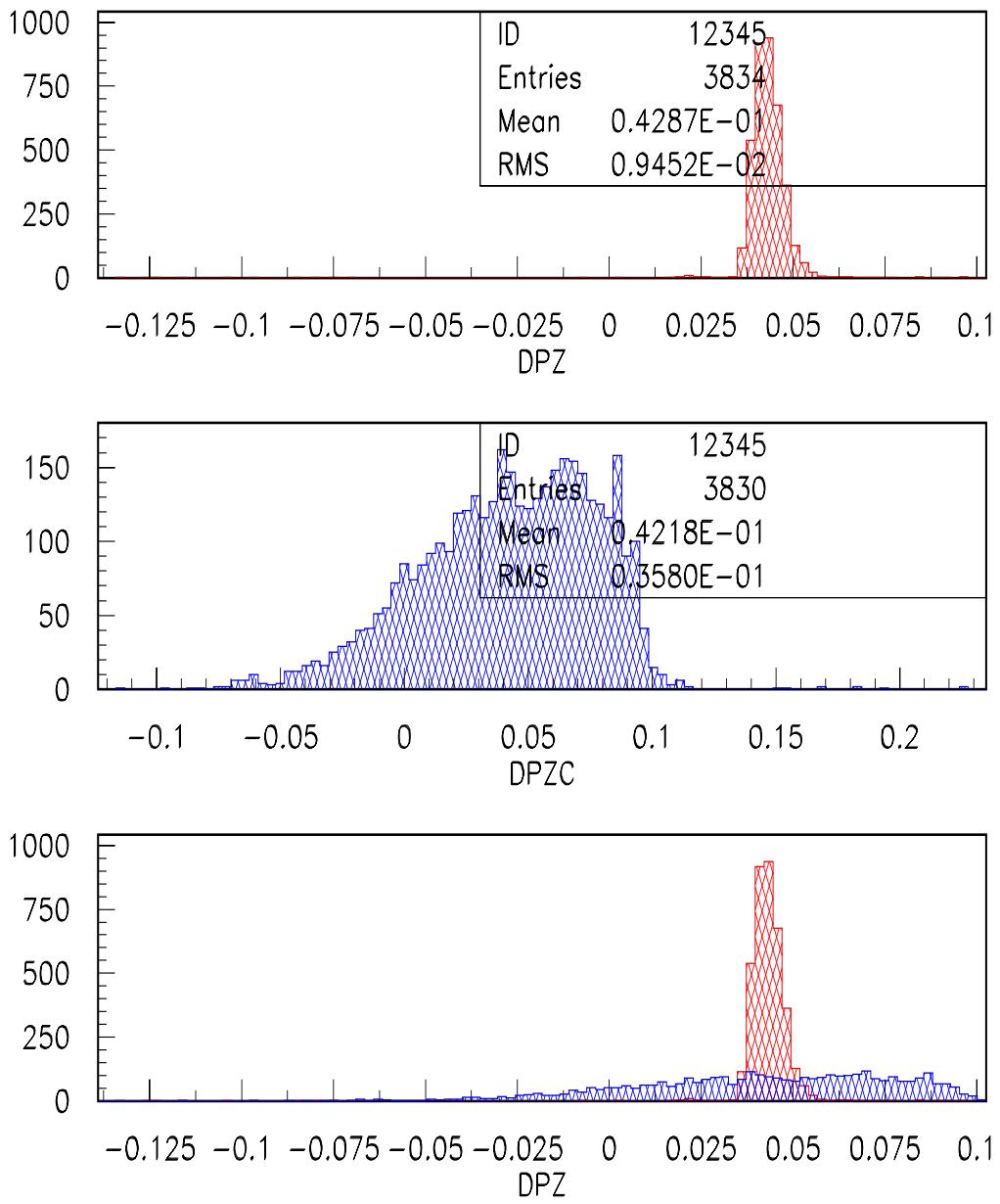


Fig.2 Momentum (P_z) deviation in absorbers and RF's

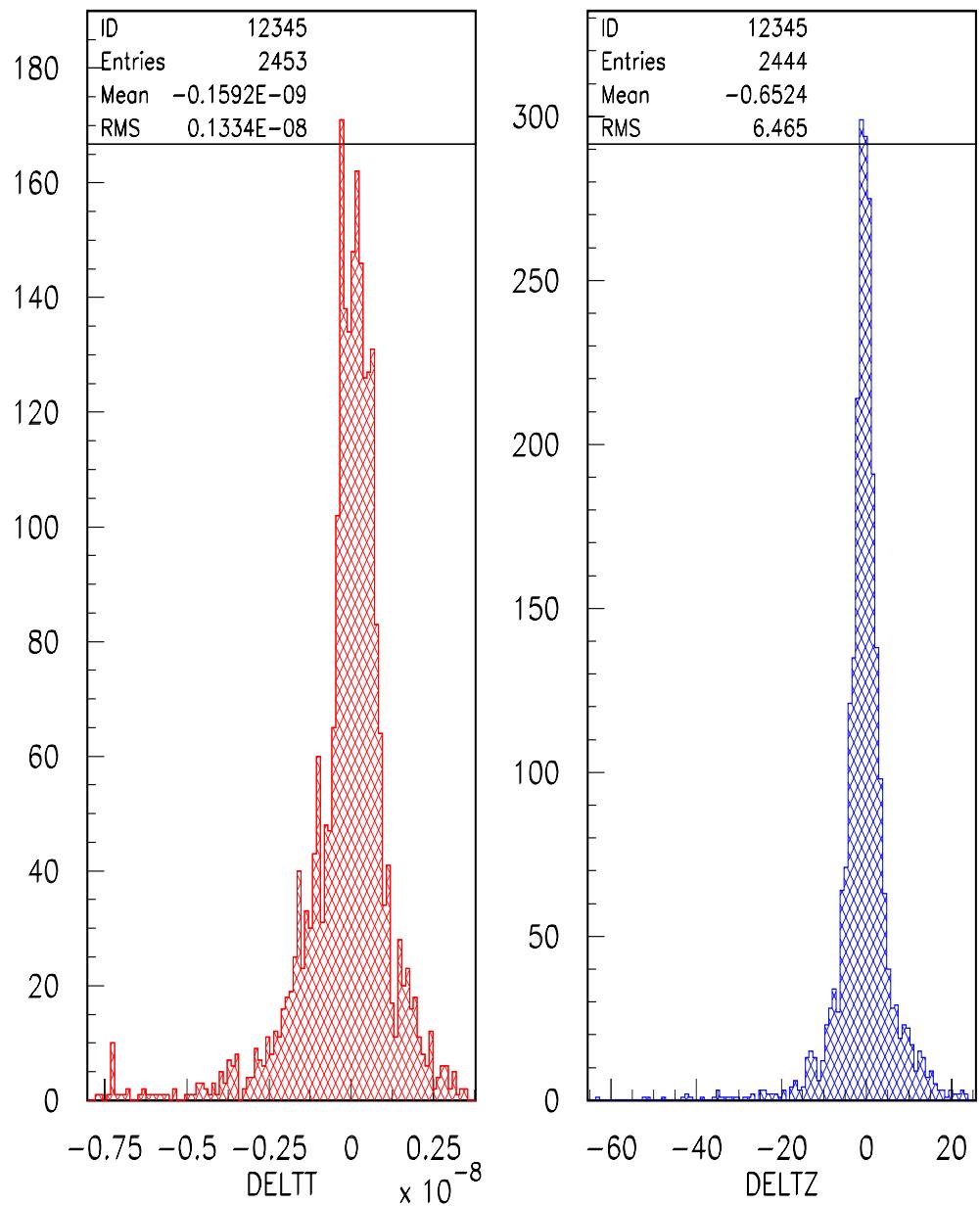


Fig.3 Time and correspondent Δz corrections

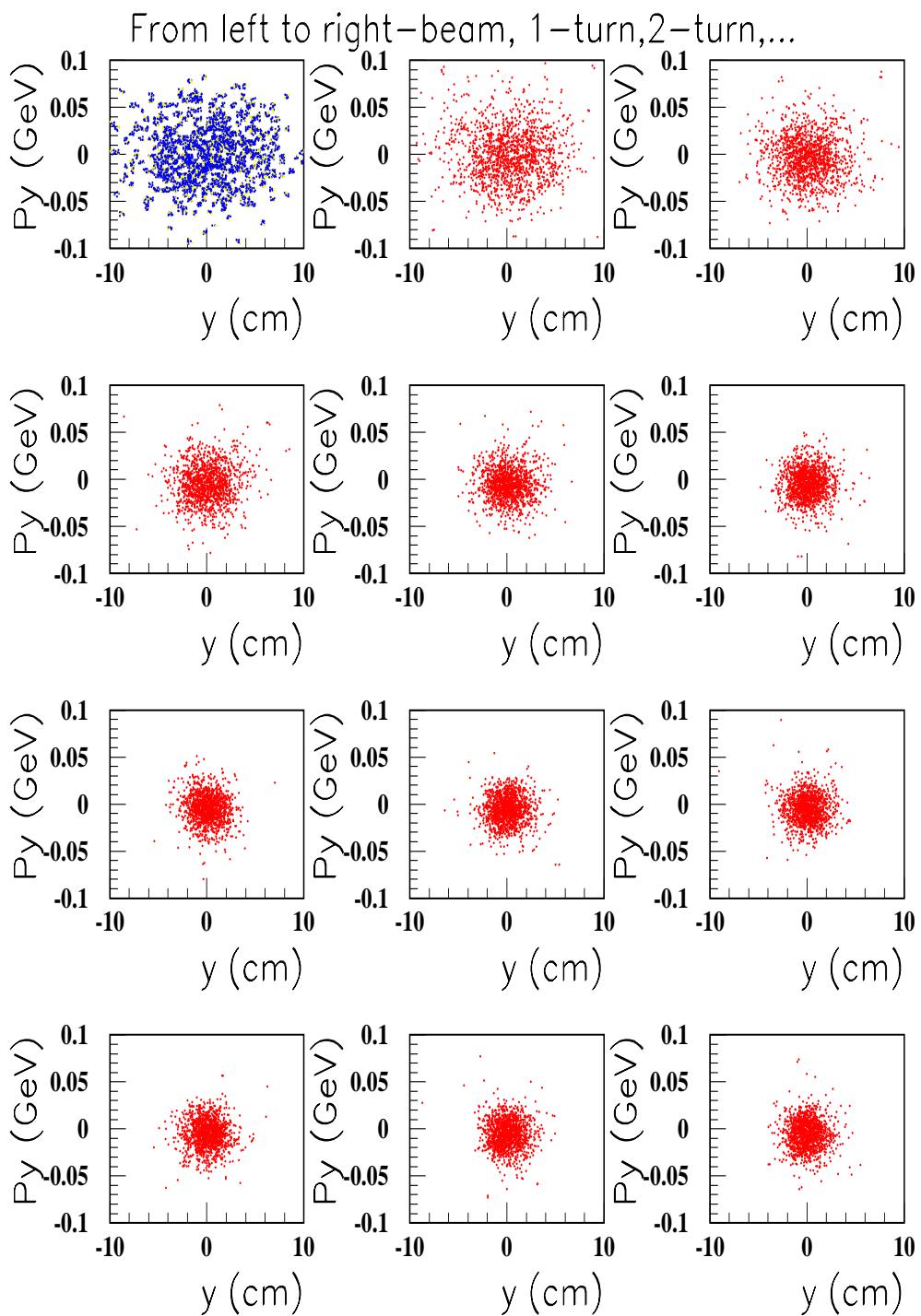


Fig.4 $y - P_y$ distributions (trans).

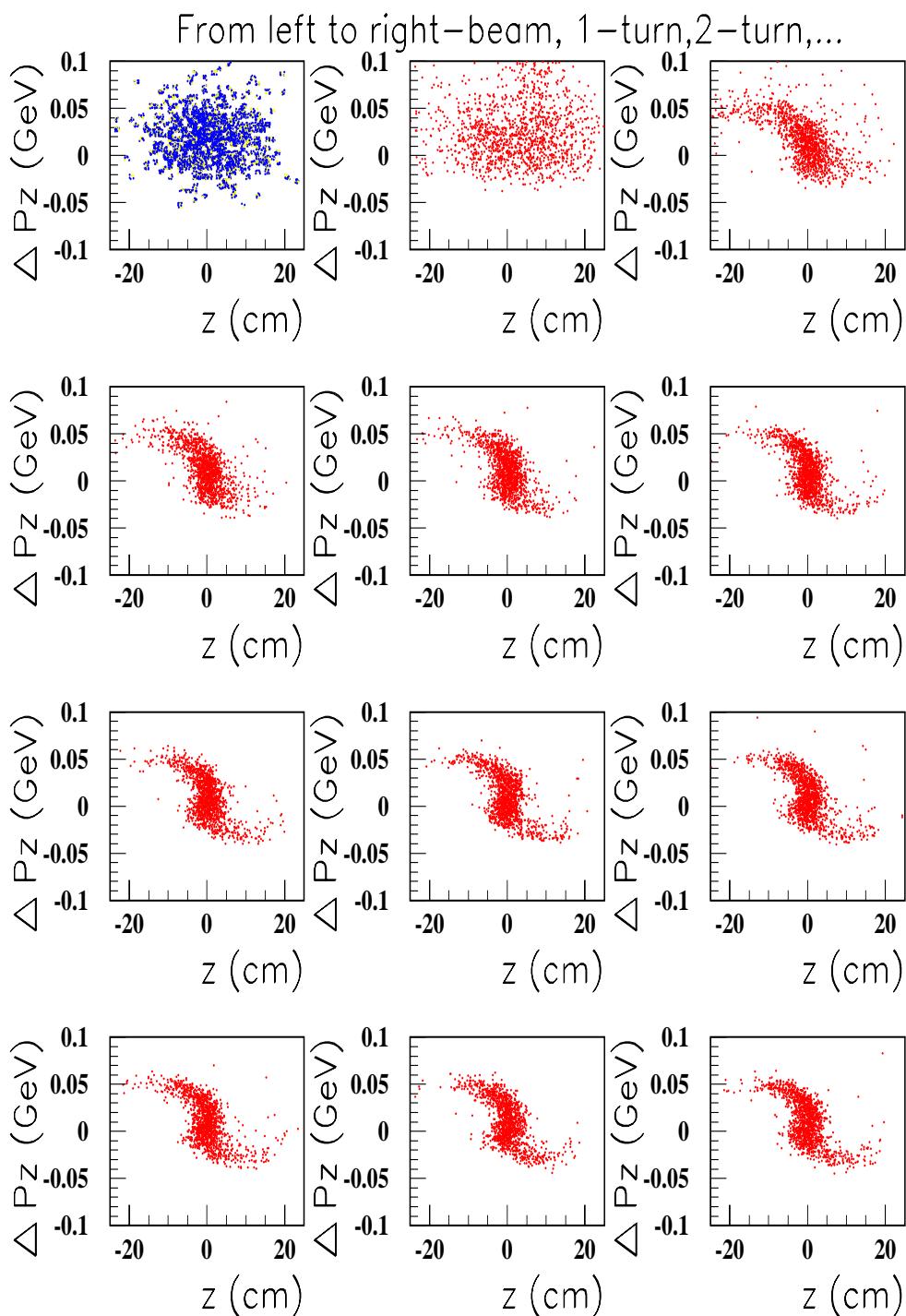


Fig.5 $z - P_z$ distributions (long).

Tetra Solenoid Focused Ring

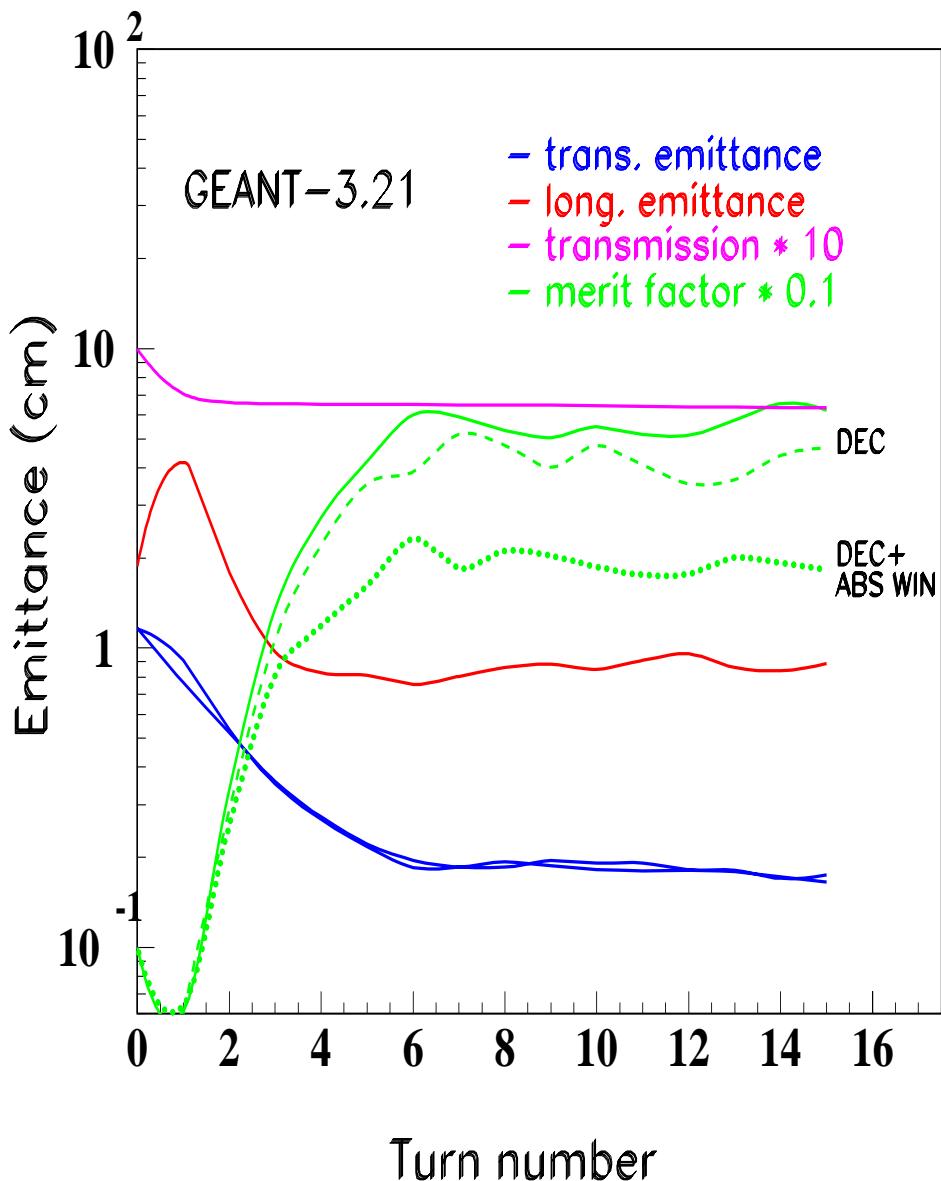


Fig.6 Emittances and transmission