

GEANT 3.21 Simulations of Balbekov's Ring - last problems.

Usubov Z. , Sept.17, 2002

Some comparative analysis with fast simulation
program (Balbekov) (Continue)

Energy vs distanse.

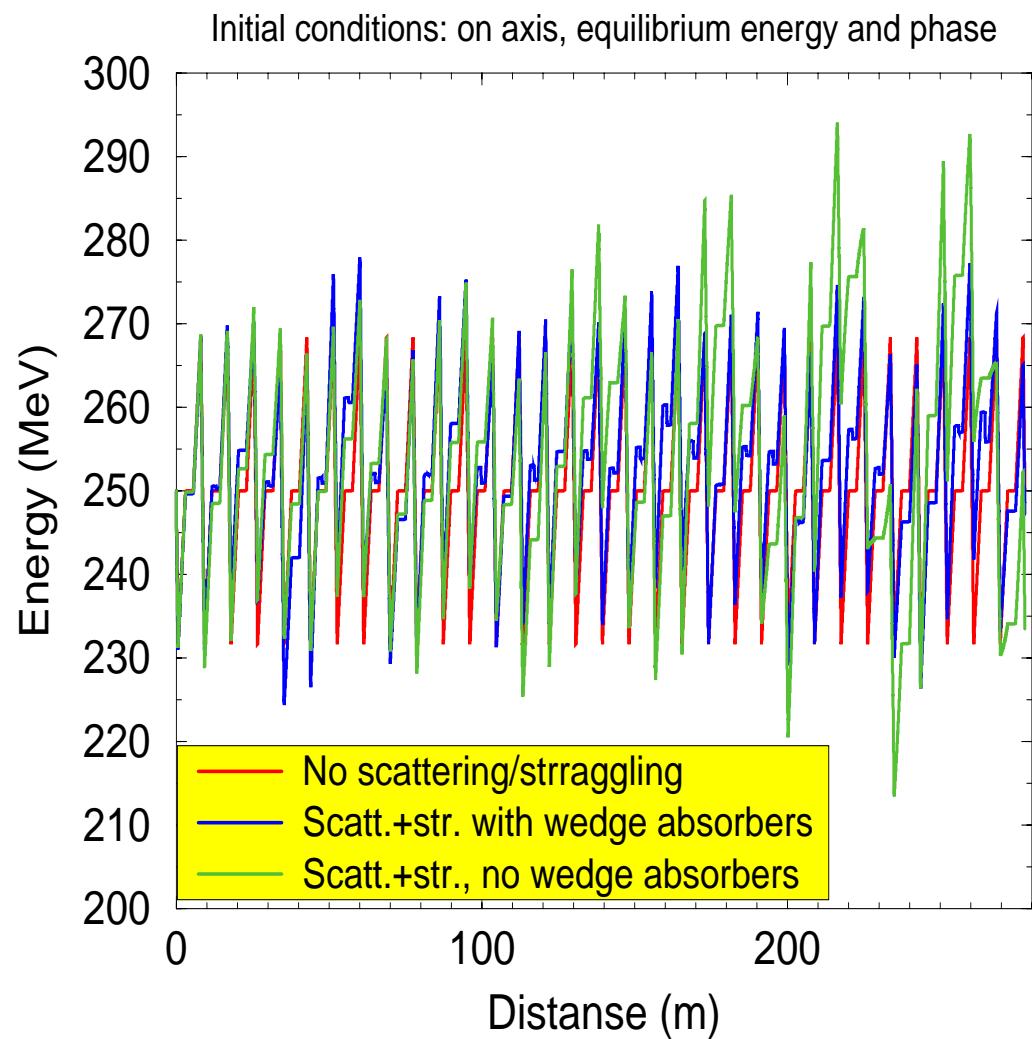


Fig.1 Fast simulation result

2002/09/11 15.39

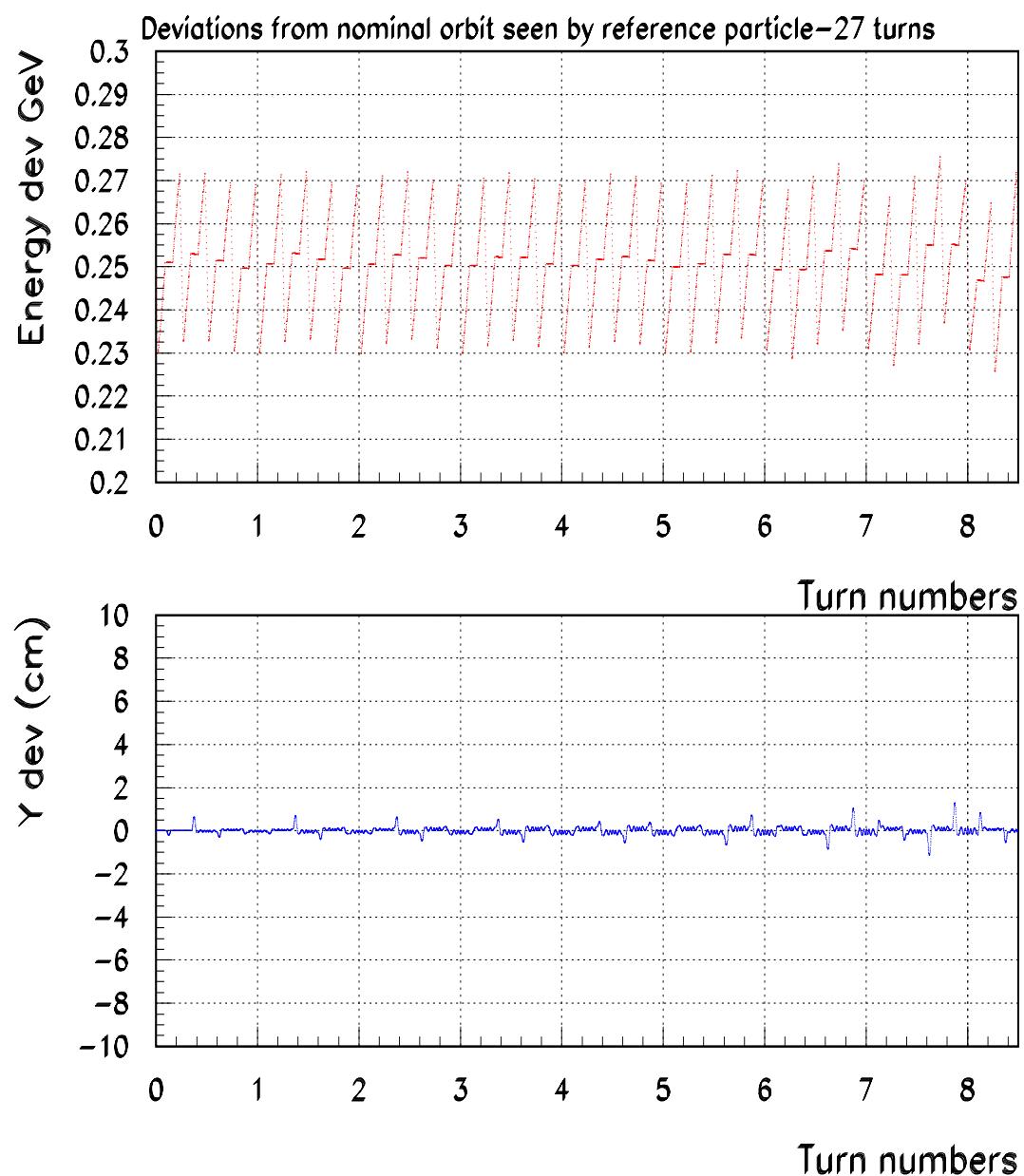


Fig.2 GEANT : Energy loss in abs =mean value

2002/09/11 15.49

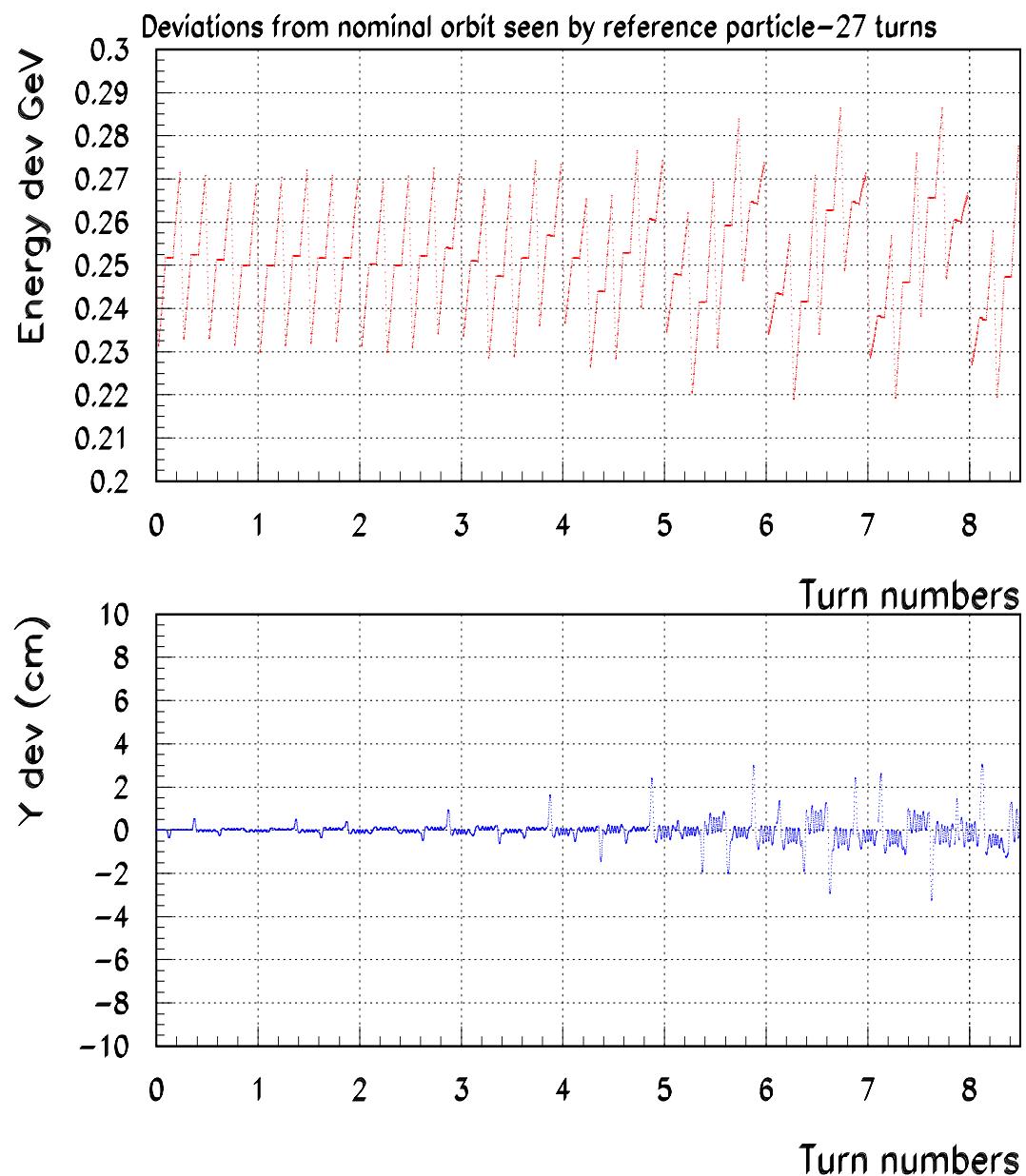


Fig.3 GEANT: Energy loss in abs with fluctuate

2002/09/12 09.39

Deviations from nominal orbit seen by reference particle—27 turns

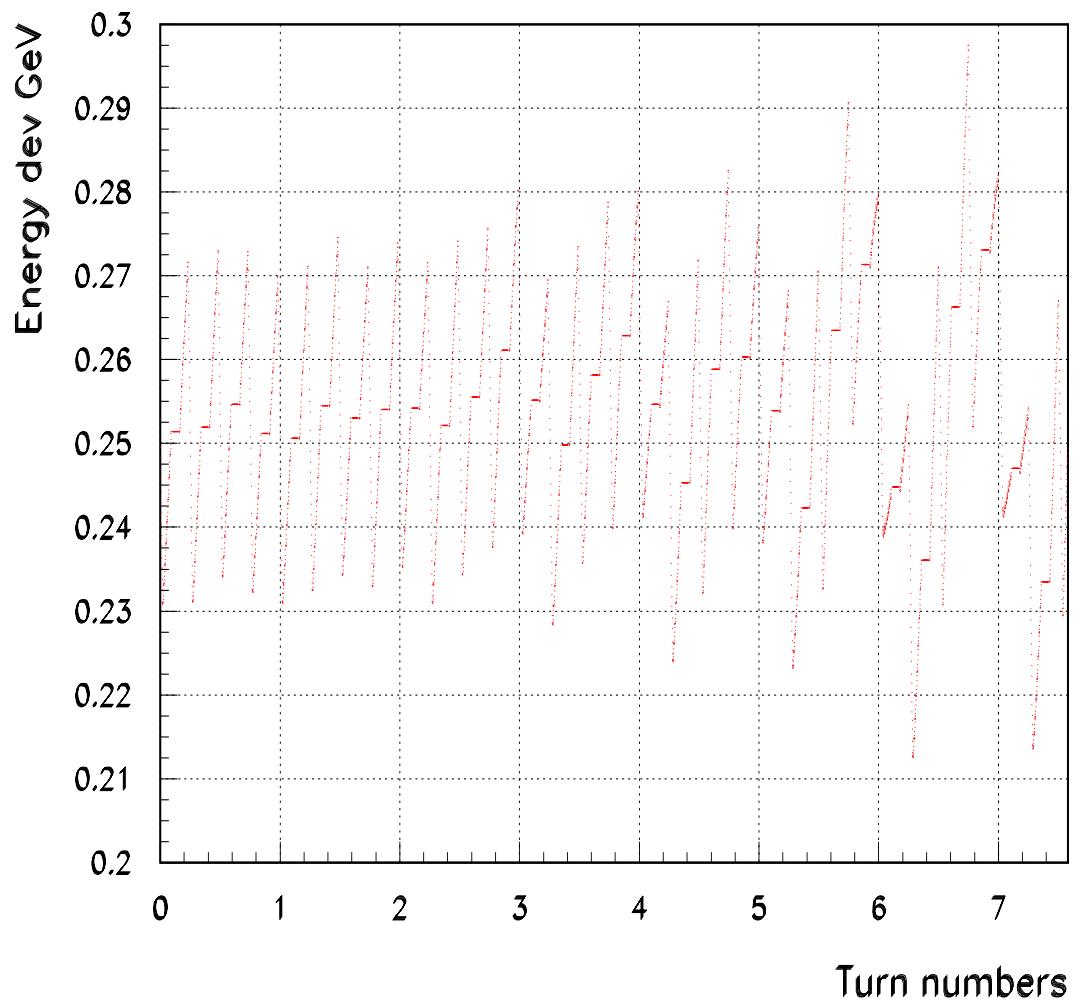


Fig.4 GEANT: Scat.+str., no wedge abs.

2002/09/12 09.42

Deviations from nominal orbit seen by reference particle—27 turns

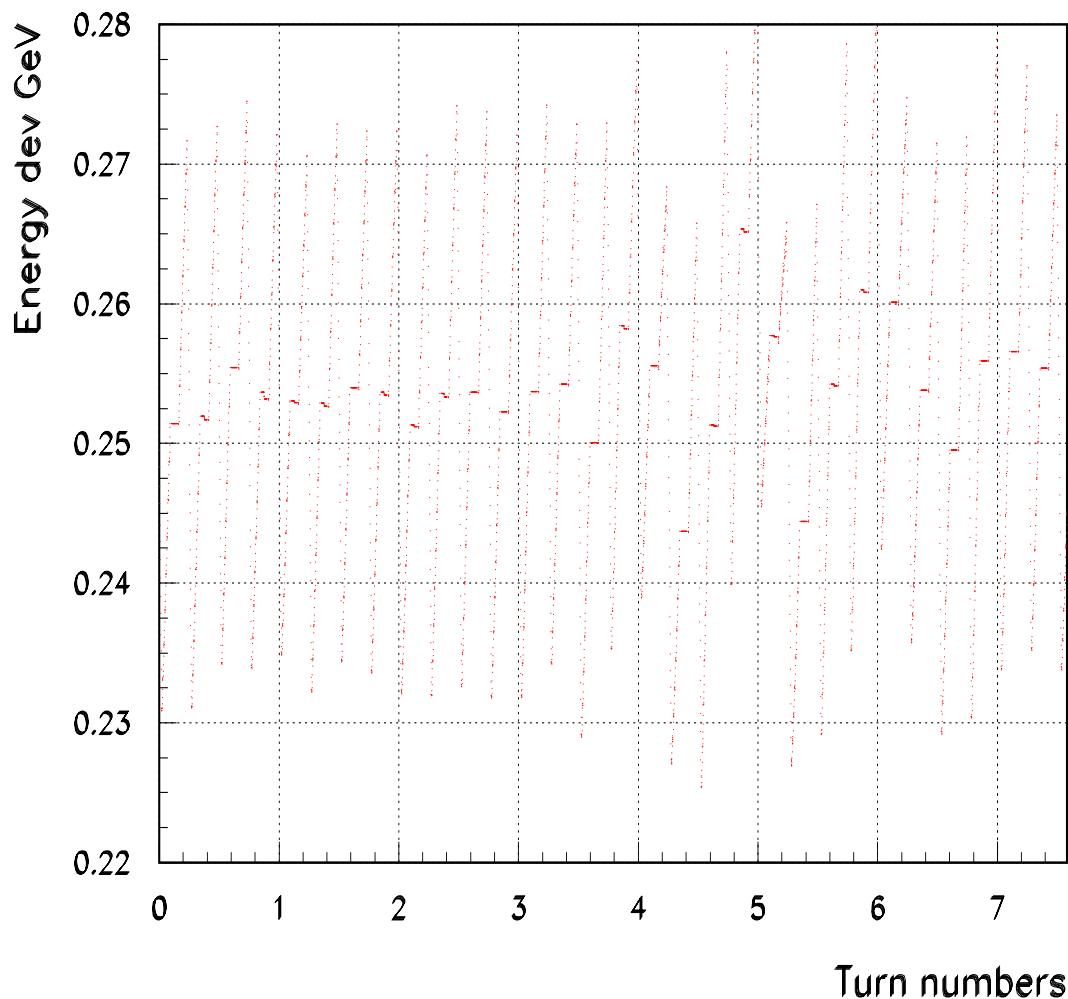


Fig.5 GEANT: Scat.+str., with wedge abs.

2002/09/14 08.15

Deviations from nominal orbit seen by reference particle–27 turns

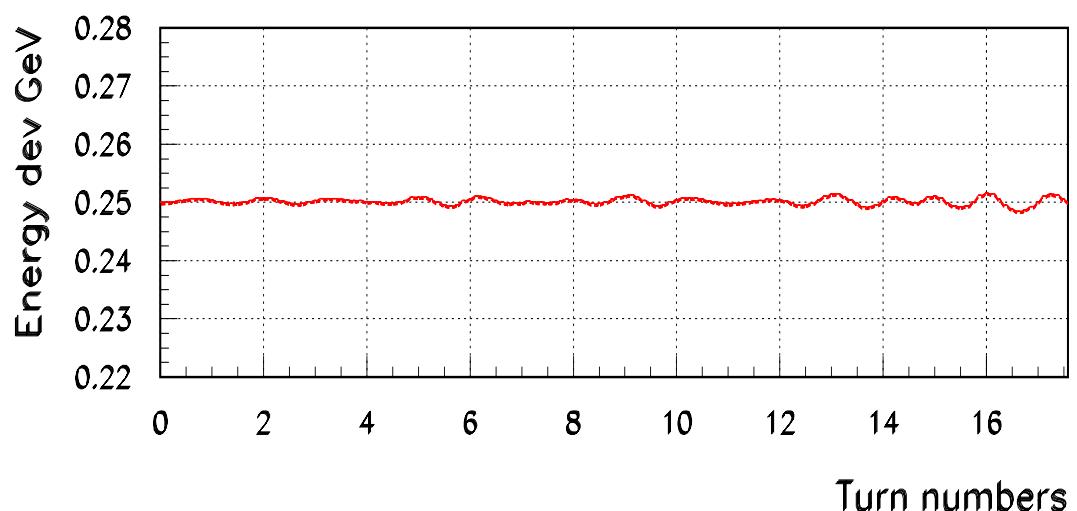


Fig.6 $H2_d = 0.026 \text{ G/cm}^3$, $RF_g = 7 \text{ MV/m}$, $\phi_0 = 0$

2002/09/13 09.17

Deviations from nominal orbit seen by reference particle–27 turns

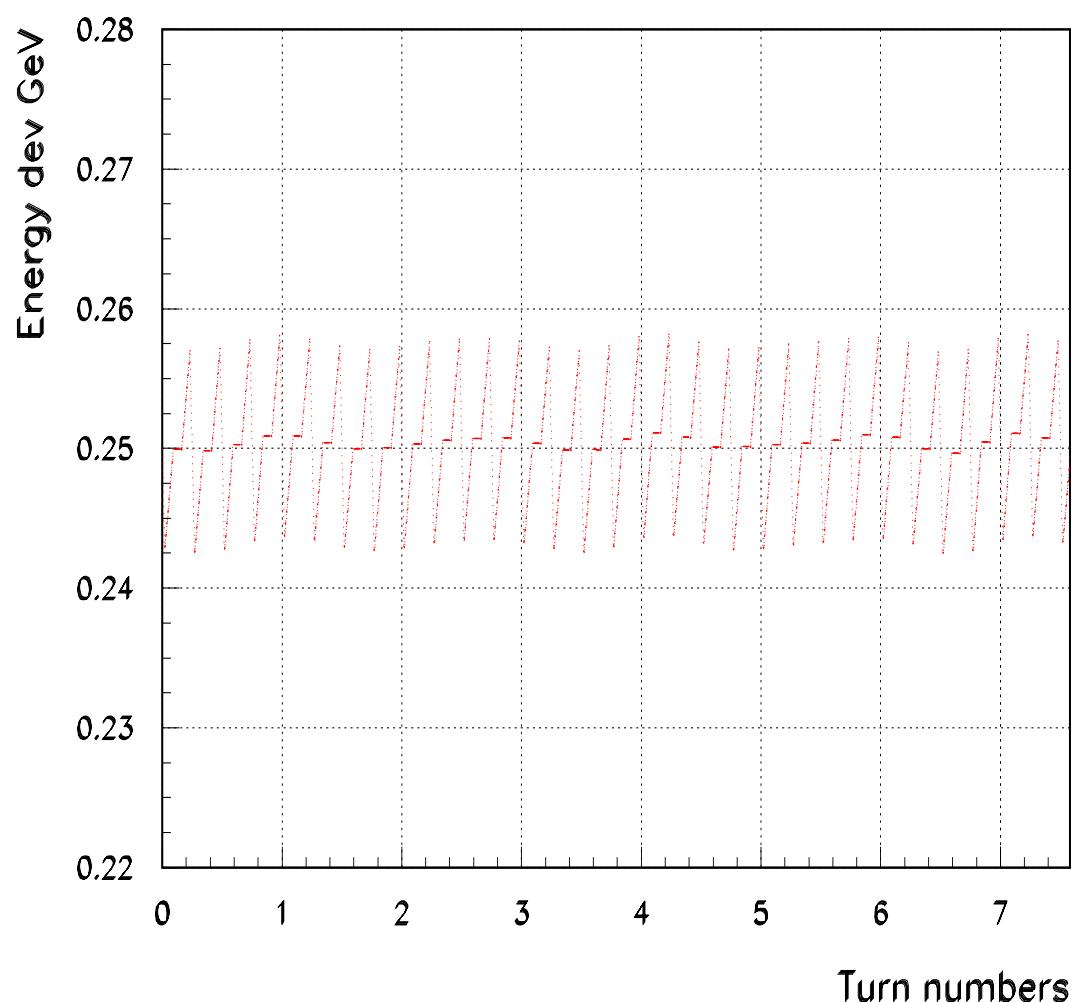


Fig.7 Energy deviation for reference particle

Tetra Circular Muon Cooler

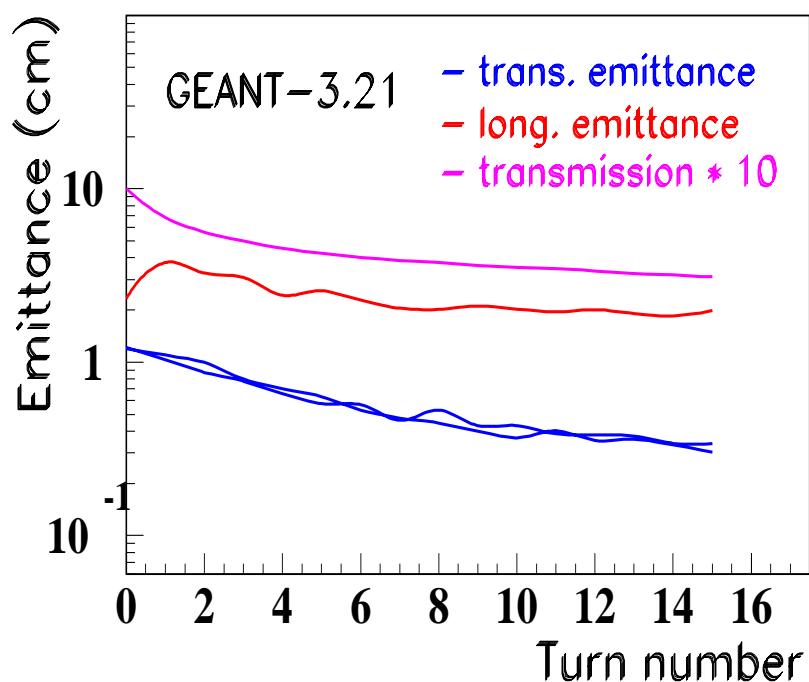


Fig.8