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

Usubov Z. , Oct, 15, 2002

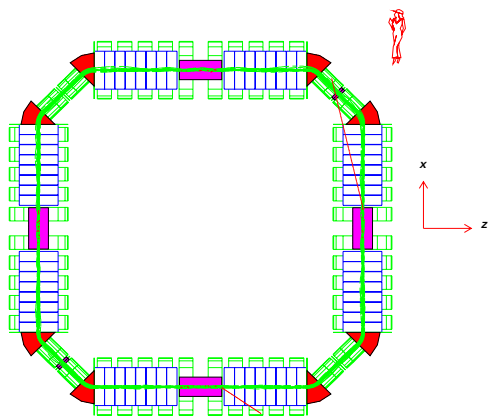


Fig.1

Initial beam conditions

- $E_0 = .250$ GeV
- $\sigma_{Etot} = 18\,MeV$
- $\sigma_{Py} = \sigma_{Pz} = 32\,MeV/c$
- $\sigma_y = \sigma_z = 4\,cm$
- $\sigma_x = 8\,cm$

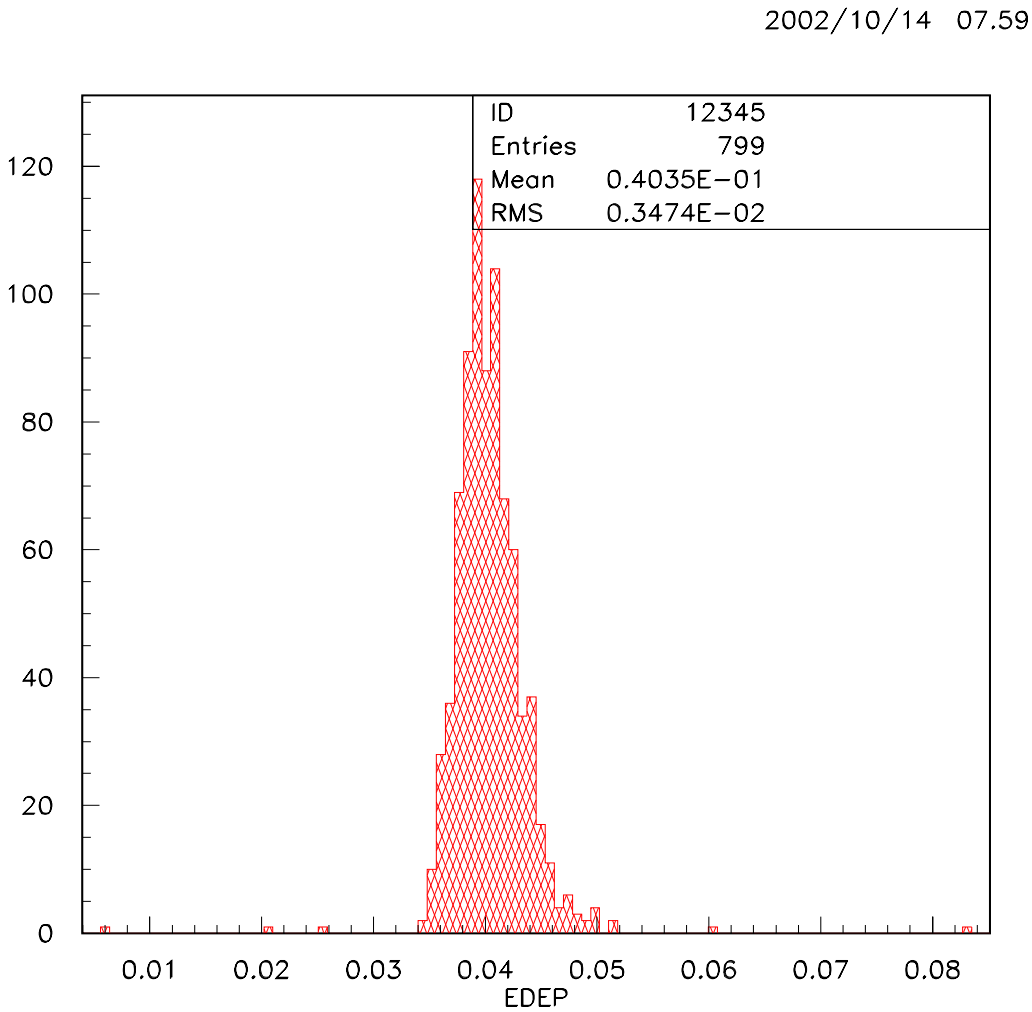
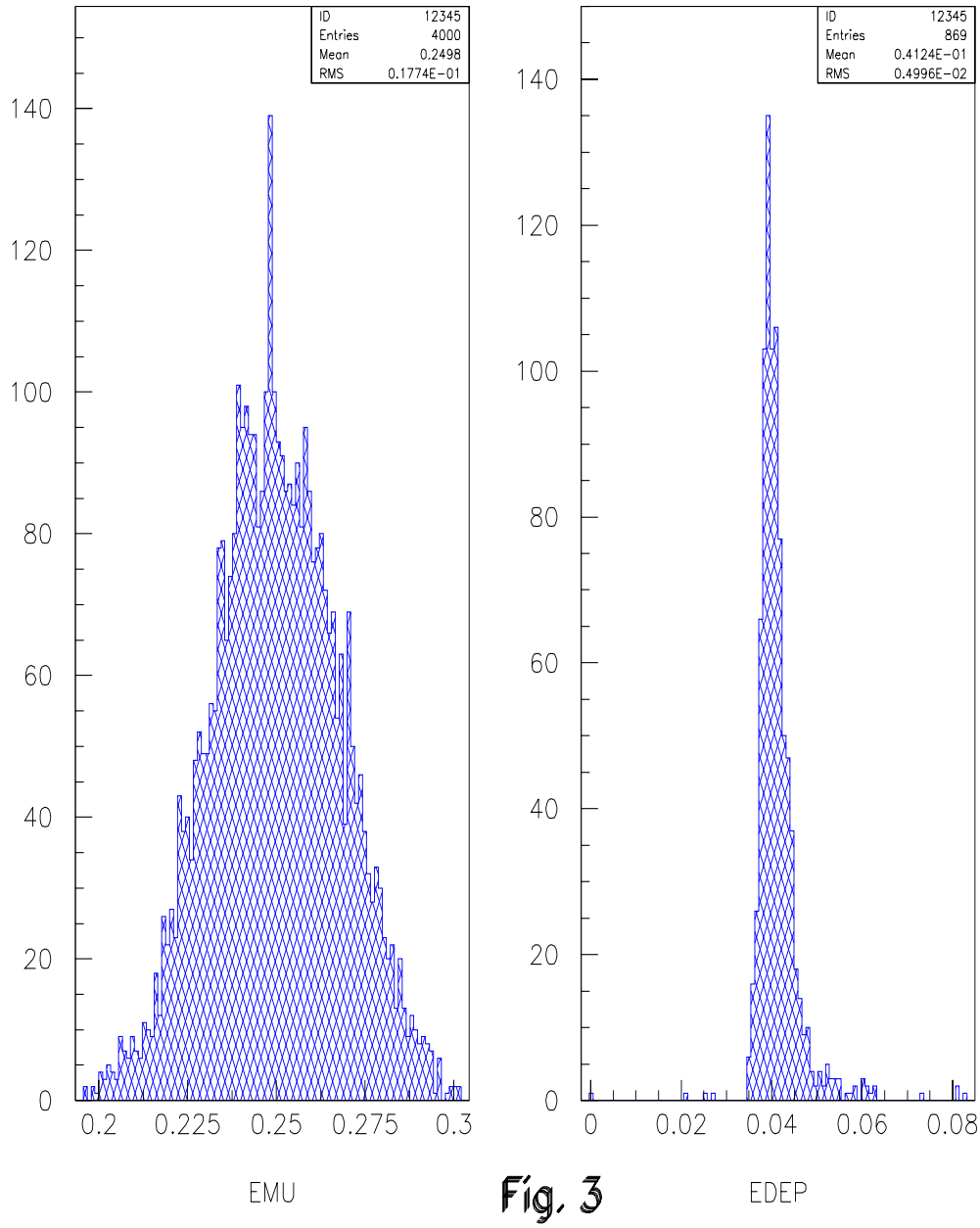


Fig.2 Energy depos in main absorber, E_b=.250 GeV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60
80
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120
140
0.2
0.225
0.25
0.275
0.3
EMU
ID 12345
Entries 869
Mean 0.4124E-01
RMS 0.4996E-02
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20
40
60
80
100
120
140
0
0.02
0.04
0.06
0.08
EDEP

Fig. 3

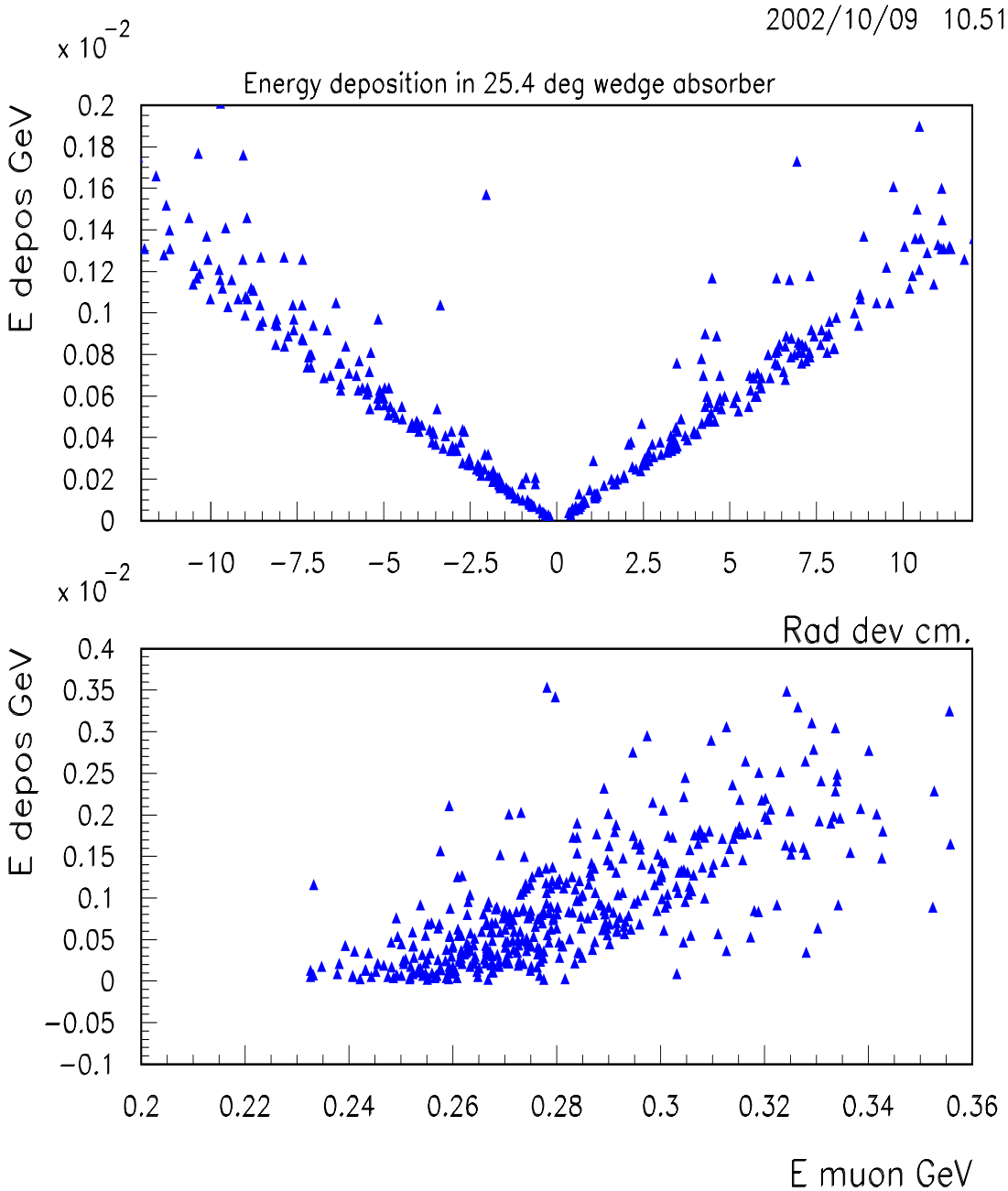


Fig.4 E depos in wedge abs. vs y and vs E

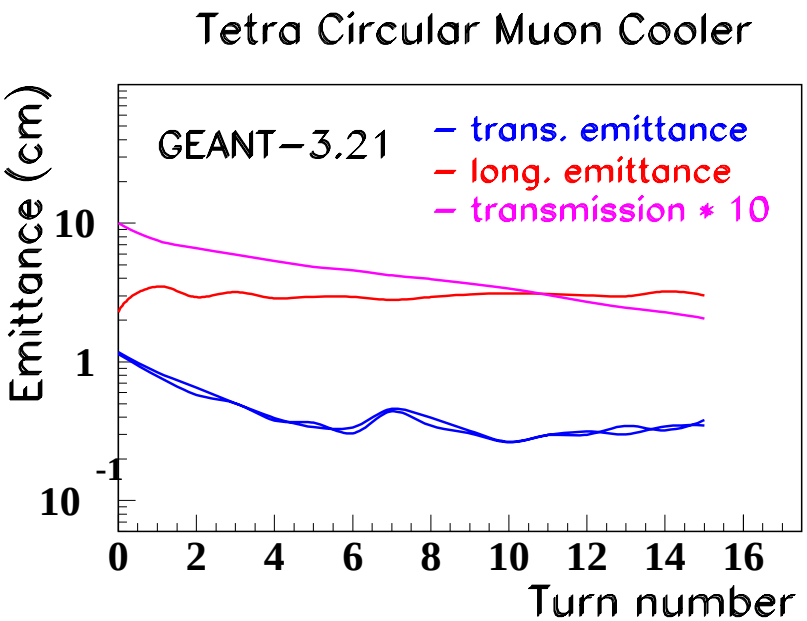


Fig.5 Right position of w. abs, Tr=20.5%

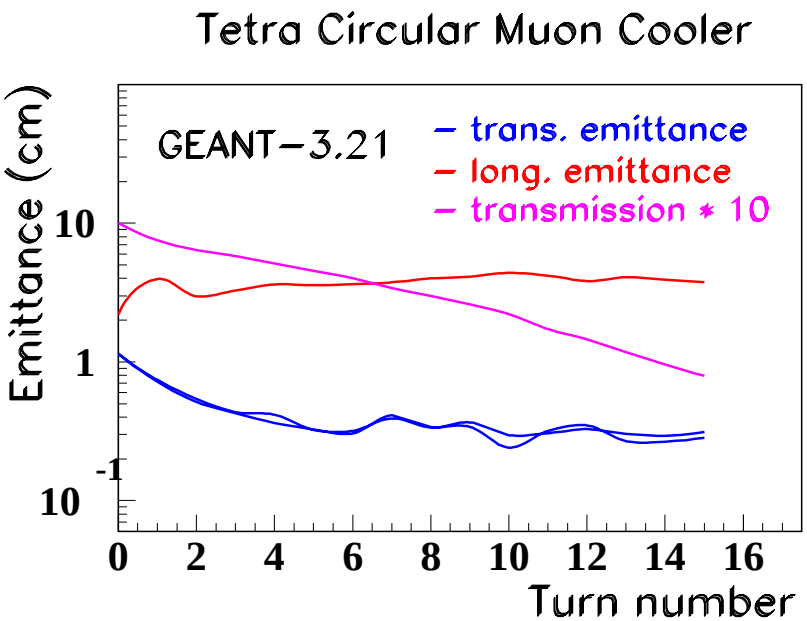


Fig.6 Wrong position of w. abs, Tr=7.9%

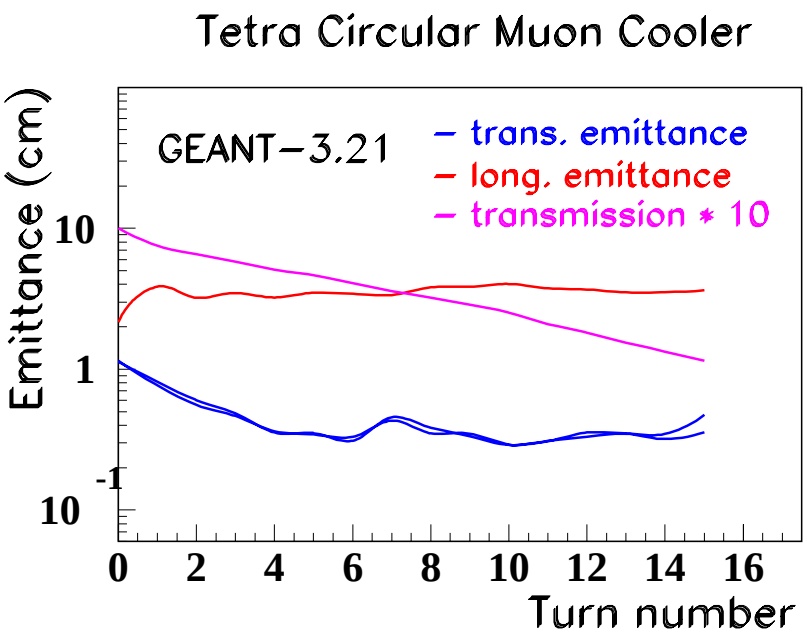
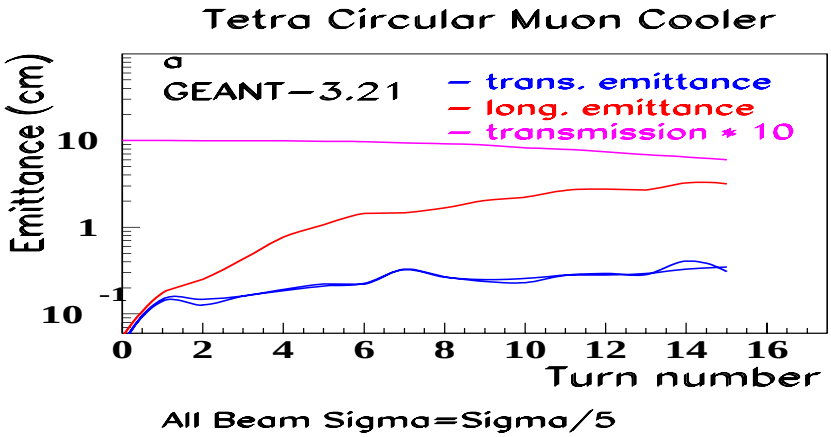


Fig.7 No wedge absorber, Tr=11.5%



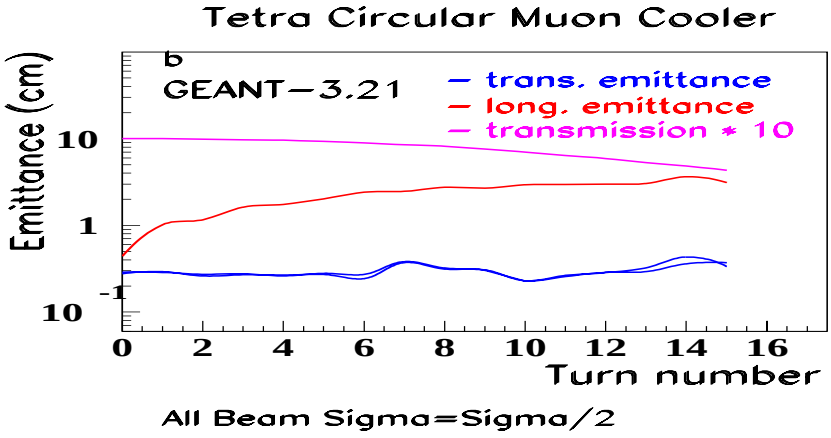


Fig.8 Tr=60 and 43 %, respectively