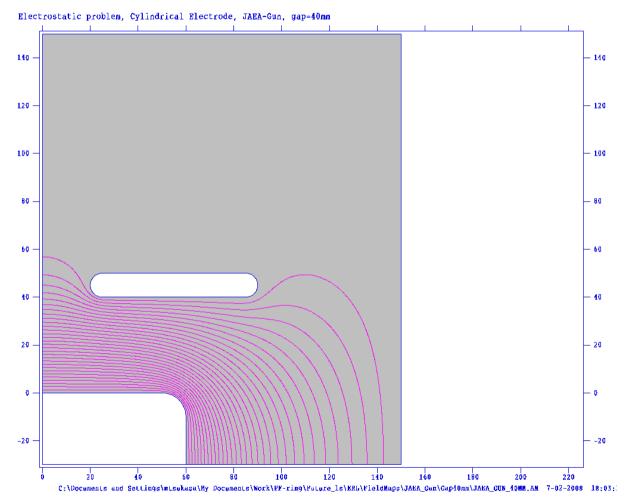
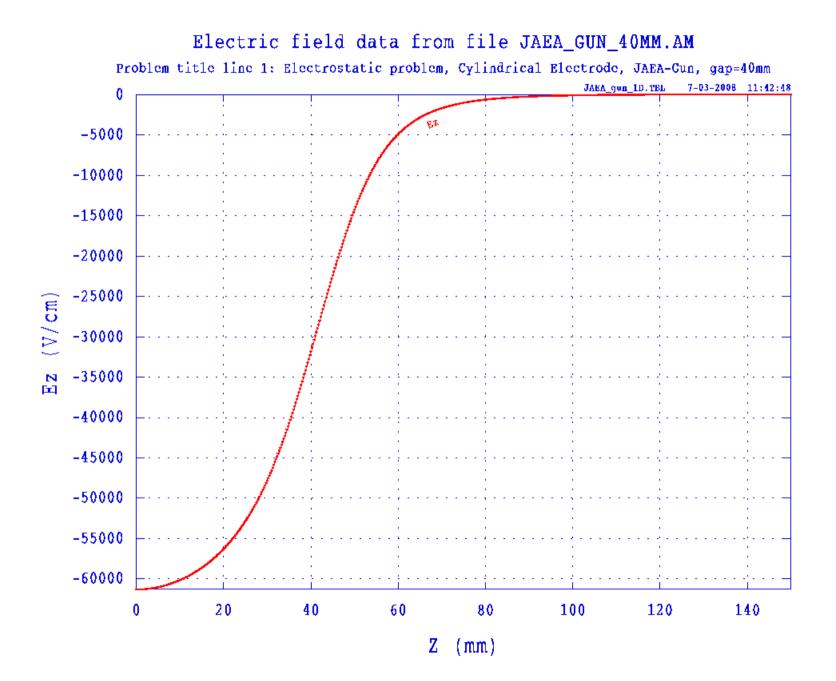
### Simulation of JAEA gun beam line (1) Gun + solenoid

T. Miyajima 9 July, 2008

## Field of JAEA gun with gap of 40mm

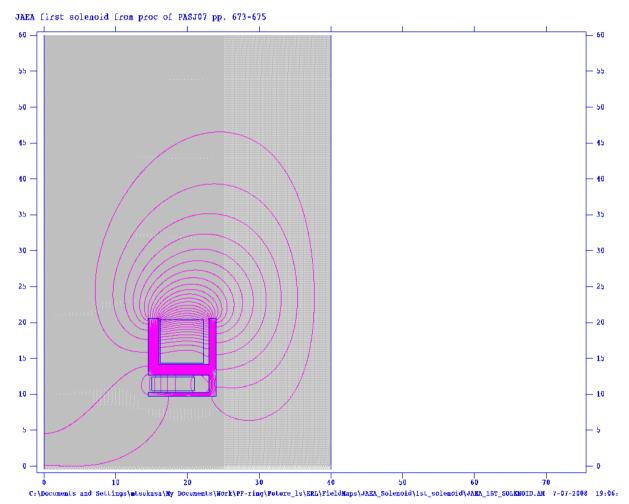
• Gap between cathode and anode is 40 mm.

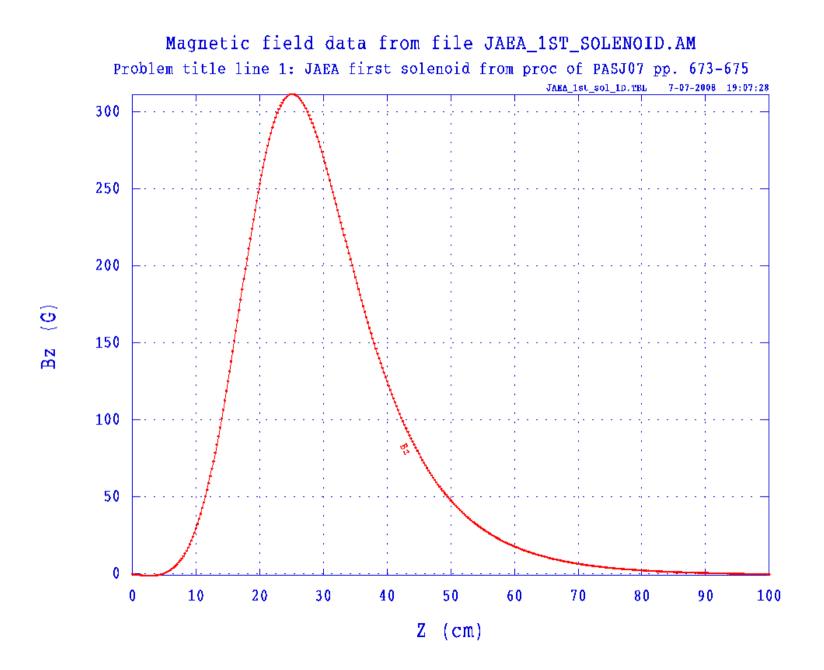




## Field map of 1<sup>st</sup> solenoid

#### • Excitation current is 280 A.





# Simulation using GPT

- Number of particles: 10k
- Thermal energy at cathode: kT = 120 meV
- Gun voltage: 250 kV
- Space charge calculation: spacecharge3Dmesh

