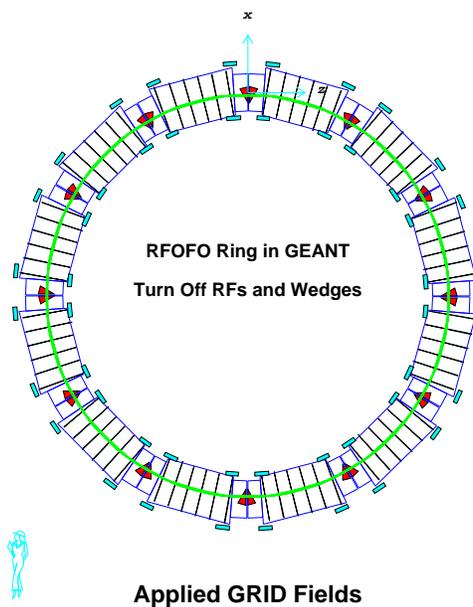


## RFOFO in GEANT Update...

- The By fields discrepancy generated by BSHEET and Biot-Savart are consistent!
- We generated 1cm x 1cm x 1cm GRID fields map with tilt angle of 53 mradians
- The fundamental of Maxwell's equations  
⇒ Div and Curl of B are very close to 0
- The CERN interpolation routine was used (FINT) and gave about  $10^{-4}$  T differences compared to the real fields

## GEANT Turns Particle...

- Turn off RFs and Wedges and applied fields  
GEANT turns particle in RFOFO

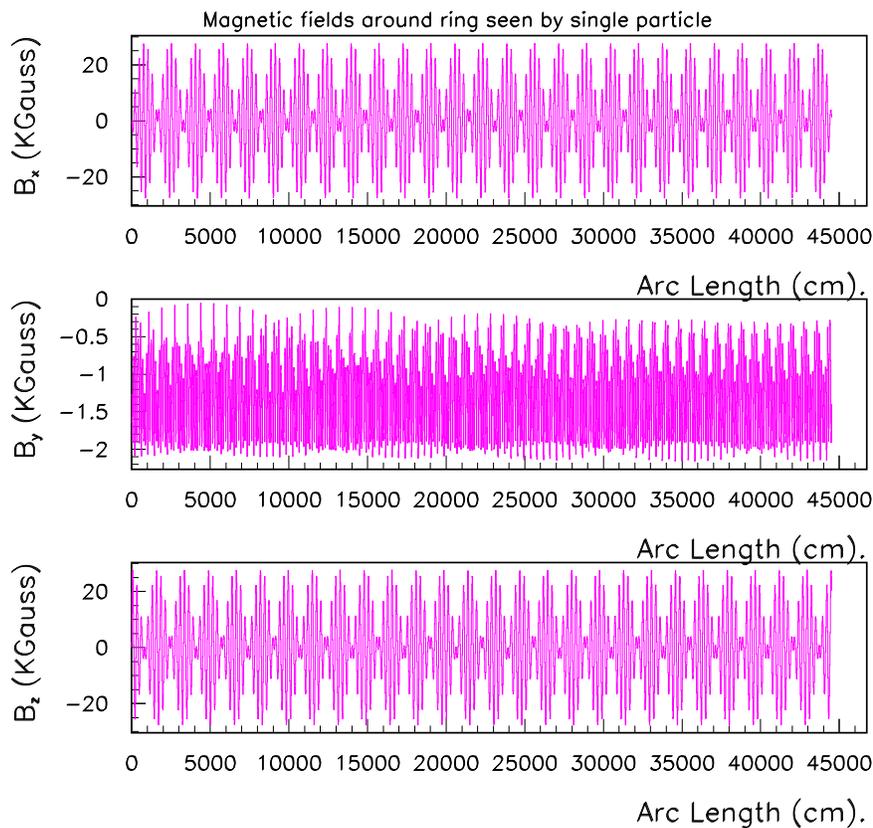


- Particle can go around forever...

## Fields Seen by a Single Particle

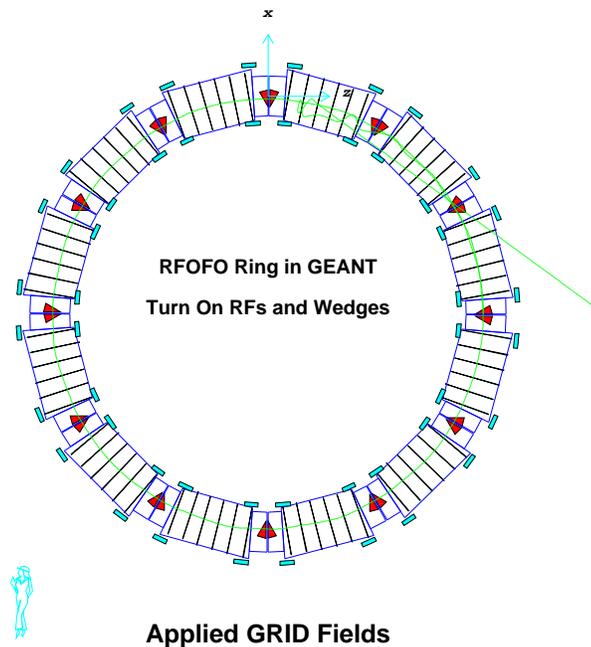
- Particle goes around the RFOFO ring with many turns. The fields in Cartesian coordinates

2002/11/25 18.55



## Preliminary Study on Wedges and RF

- We turn on RFs and wedges and study physics processes: energy loss and hadronic interaction



- We provide the fields in all cells...

## Preliminary Study on Wedges and RF...

- Fields seen by particle with energy loss and hadronic interaction

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