Shielded RF Lattice Update

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Update

- Comparison ICOOL vs G4MICE
  - Simulate my lattice through ICOOL and G4MICE
  - Compare output
- Calculation using Ecalc9f Clone
  - Updated muon rates
- “Accelerating” Lattices
  - First results for various lattices
- I will be quick - hopefully a bit more detail next time
Shielded RF Lattice
n in 30 mm

G4MICE vs ICOOL

ICOOL

G4MICE

n in 30 mm
G4MICE vs ECALC9

G4MICE calculation
- I just take a momentum bite
- increase of ~ 45%
- slightly lower than previous after “optimisation” of routines
  - changed tracking step size etc

Personal version of Ecalc9
- does longitudinal amplitude cut properly
- nb this is an increase of ~ 60-65 % in rate (still no windows)
Accelerating lattice

Try accelerating particles
- performance not so great...
- this is a lattice like accelerate, cool, accelerate, cool...