CHICANE SHIELDING AND ENERGY DEPOSITION

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Target/ Front End meeting
7 August 2014
INTRODUCTION & WORK PLANE

- Received chicane input root+MARS2012 files from Pavel
- Working on installing them with the new MARS2014 version on BNL - FIDO cluster.
- Debugging root + MARS installation in FIDO
- Start with old chicane parameters and new beam input files from Ding
- Initial energy deposition results
- Once I receive the new parameters from Scott will run again to find the energy deposition distribution along the chicane
CHICANE ROOT GEOMETRY

Coils:
- Inner radius 43 cm
- Outer radius of 53 cm
- Length of 18 cm
- On-axis field of 1.5 T
- MARS material SCON consisting of 90% superconductor (60% Cu and 40% NbTi) and 10% Kapton (C22H10N2O5)

The proton absorber:
- 10 cm Be disk
- Outer radius of 30 cm.

Beam Pipe:
- Stainless steel pipe
- Radius of 32 cm