## Chicane Shielding in MARS

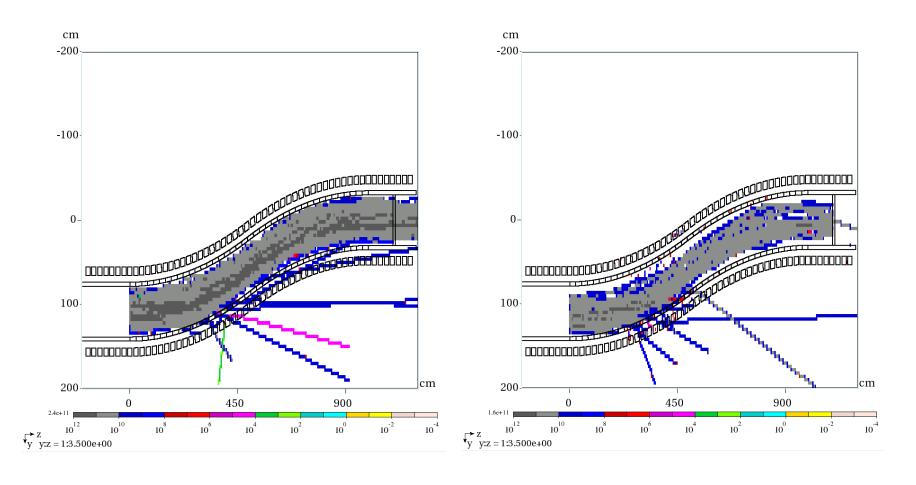
Pavel Snopok

IDS-NF phone meeting

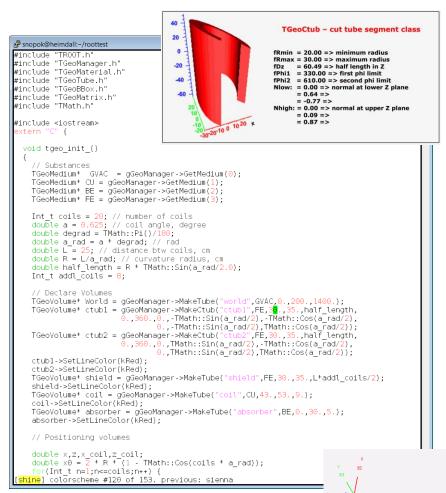
Feb 12, 2013

## First glance at shielding

...seems like it is the same old chicane in MARS, but... (next slide)



## **ROOT-based geometry**



- This new MARS geometry is based on ROOT (3D visual below produced by ROOT)
- Allows for all the ROOT conveniences + standard C syntax
- Geometry is straightforward to read/comprehend/modify as needed
- A wide variety of basic volumes made available by the ROOT TGeo module ("libGeom")
- Most important for seamless shielding is the TGeoCtub elementary volume (cut tubes with arbitrary entrance/exit angles)
- Next: larger statistics, different shielding materials/parameters, radiation impact on coils
- Longer-term plan: full channel with RF cavities, etc.