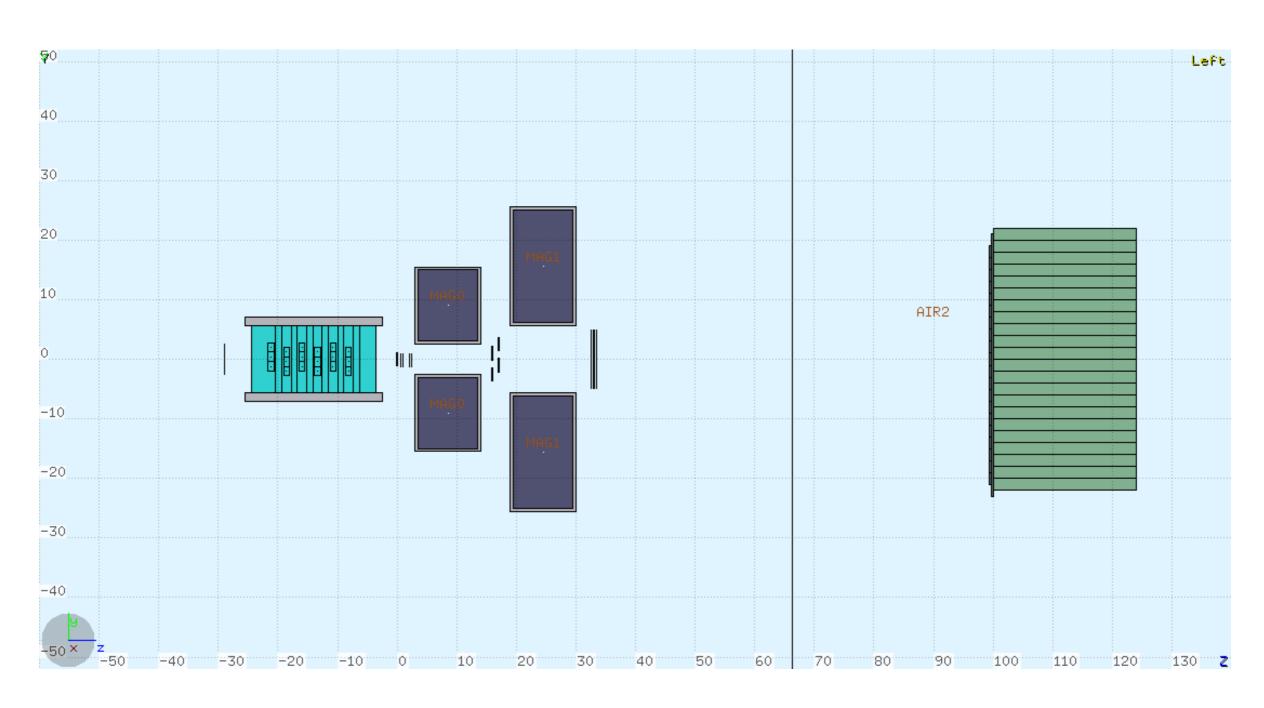
FLUKA simulation status in the newgeom branch

Serena Software meeting 22/07/2017

FLUKA geo in newgeom branch



Present

- All the detectors, the target and the magnets are available in FLUKA simulations (MSD thanks to Riccardo)
- Detectors can be switched on and off in the FootGlobal.par config file
- Including the magnets in FootGlobal.par config file, also the magnetic field is activated: tests ongoing
- The energy deposits in the Mimosa28 are recorded only in the 14um thick epitaxial layers
- Passive layers in the IT still missing (but not "strongly" needed in the reconstruction). Final layout still to be defined. Should we put them in the simulations now?
- IT ntuple: got rid of imimo, iplume, ilay. Now we only have isens
- Study about electron energy cut (triggered by Marie, working with Pisa)

Future

- Passive elements in IT to be included
- Mag field test in progress
- Not all the rotations have been implemented (see next slide)
- Some work has still to be done about the materials implementation in FLUKA
- Real calo geo must be implemented
- New event production and reco tests

Rotations

	Whole detector			Single Sensor		
Detector	X	Y	Z	X	Y	Z
ST	✓	✓	✓			
ВМ	✓	✓	✓			
TG						
VT				✓	✓	✓
IT				✓	✓	✓
MSD						✓
DI						
TW						✓
CA	✓	✓	✓			