

FLUKA FOOT Simulations

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Done

- The makegeo executable is now automatically produced by the make command (Christian)
- Geometry of all the detectors that will be used at GSI data taking has been implemented in the TA*parGeo classes. I still have some concerns about the decoupling btw FLUKA and ROOT geo
- VTX geometry in FLUKA includes also the non active zones (not in ROOT geo)
- All the detectors can be switched on/off through the FootGlobal.par file. In Rome I proposed to put “air material” to the switched off detectors, but I managed to completely remove them from the simulation when needed
- Magnetic field is switched on/off if the TADI is included/not included in FootGlobal.par
- Removed the digitization from the simulation side: in the root TTree no more “row” and “col” for VTX and ITR and “strip” for MSD. In the Evento* files they still have to be removed (they are still needed somewhere in the code)
- Cleaned the code from some old, and now useless, files

In progress & to do

- FLUKA user routines will be ready within this week
- I'm checking the ROOT and FLUKA material consistency
- Target and beam infos must migrate to TAGparGeo class and be tested
- FLUKA simulation (triggered and untriggered, or whatever you need) produced with the newgeom branch for the GSI setup will be produced at the beginning of the next week
- The FLUKA geometry of the detectors not included in GSI experimental setup must be implemented