

FCAL software and analysis meeting, October 17, 2018

Meeting Minutes

Alexey presented the results of the density measurements of tungsten absorber plates. Were measured 25 tungsten plates taking into account the real shape of its.

- The nominal volume of a plate is 67.9 cm^3 .
- Density according to the alloy mass composition (W 92.4%, Ni 5.18%, Cu 2.42%) is around 18.5 g/cm^3
- Density of our plates is around 17.47 g/cm^3

Sergej presented the results on MC simulation of Moliere radius of electron shower.

- Used electrons with (5 – 100) GeV energies
- Calorimeter models: homogeneous and sampling structures
- MC simulation results are almost the same in Geant3 and Geant4, Geant3 is faster than G4
- Moliere radius doesn't depend on the shower energy

We discussed the status of the paper. Sasha will implement the comments got from Publication Committee, also Wolfgang will work to the paper. Maryna mentioned that she has improved some plots which are available now.