Update on LUXE GEANT4 Geometry

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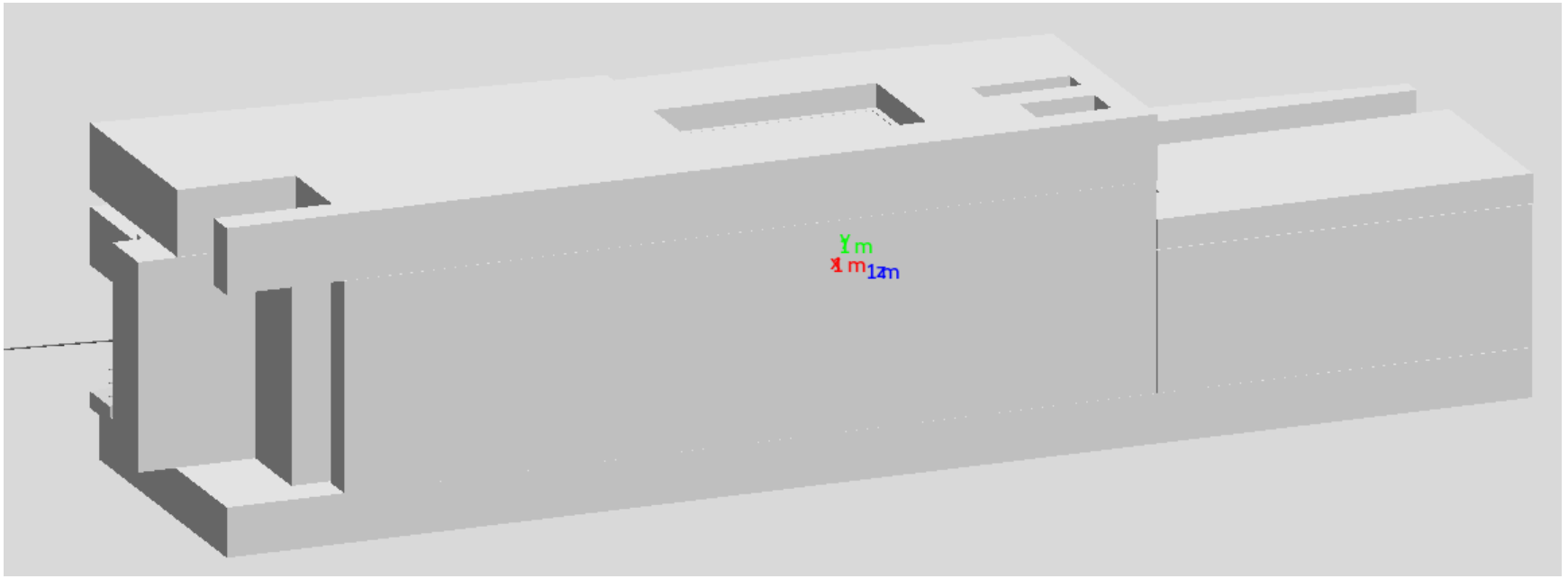
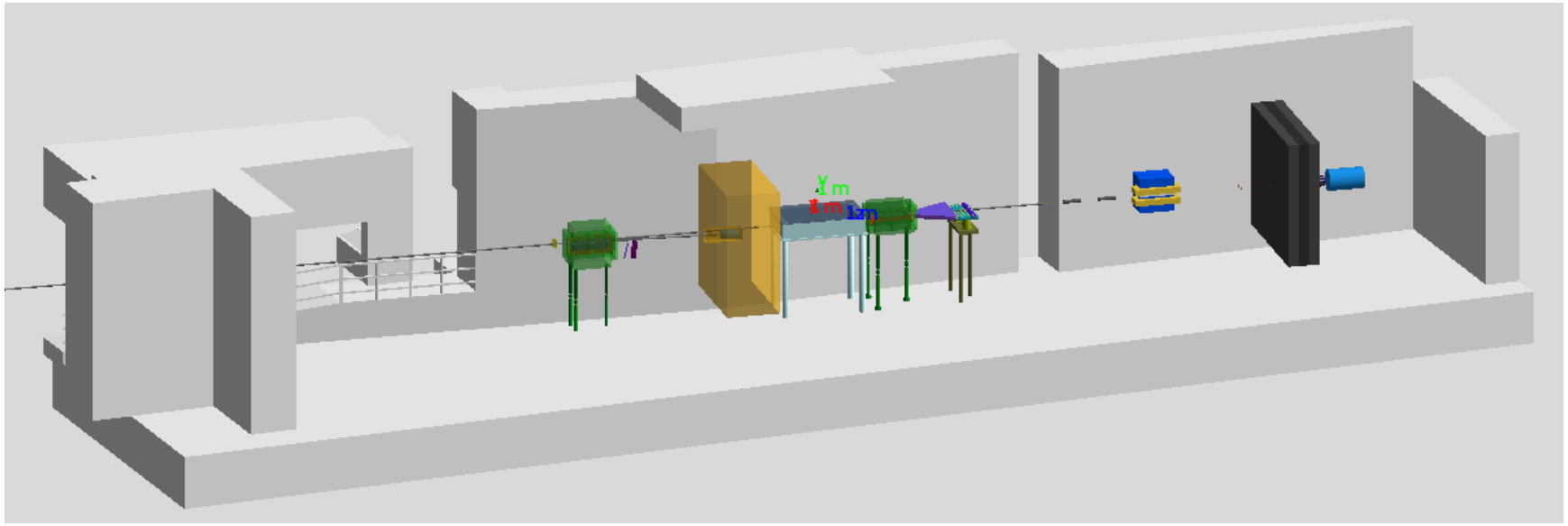
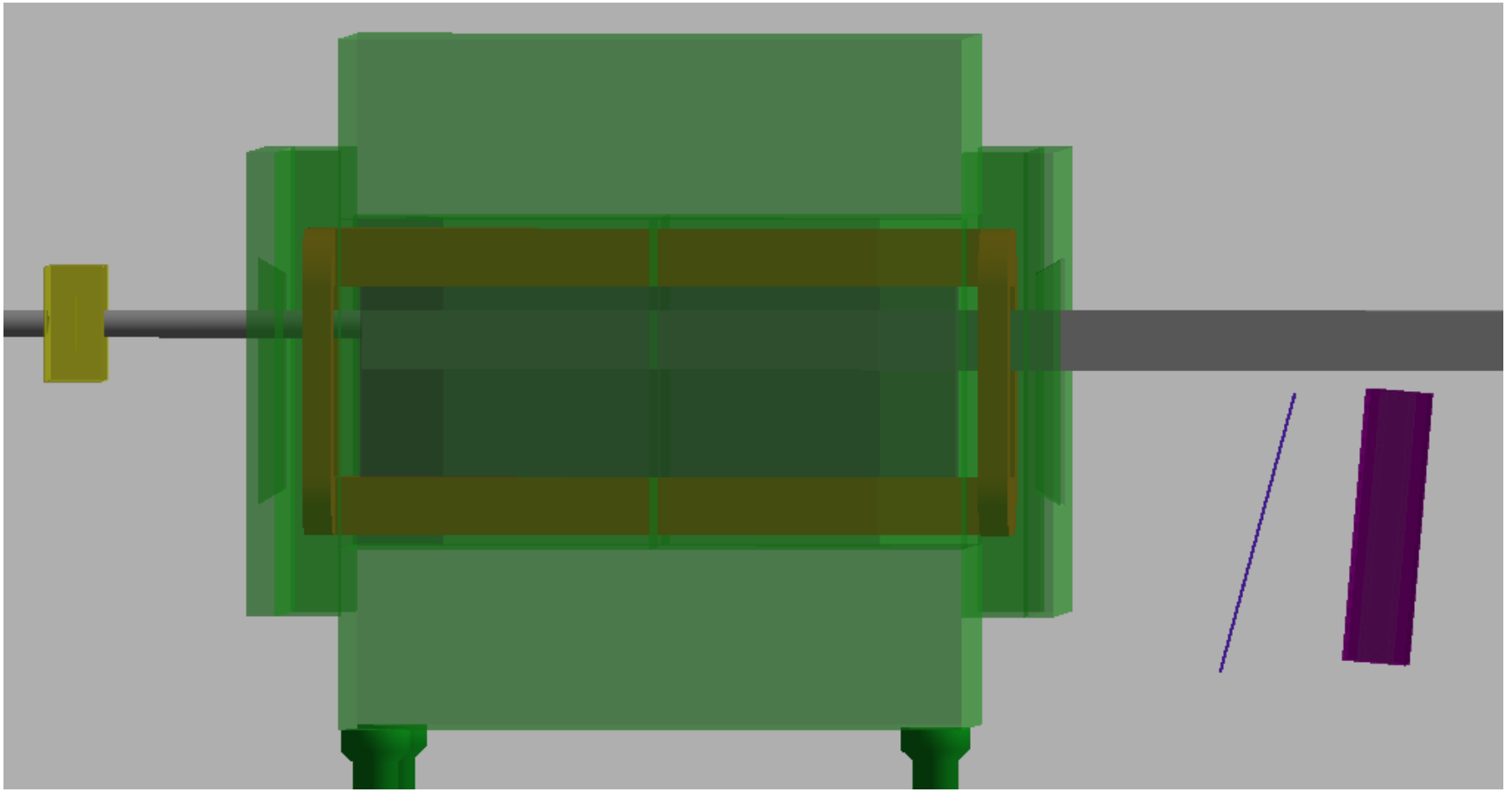
LUXE Meeting
August 13, 2020

Infrastructure

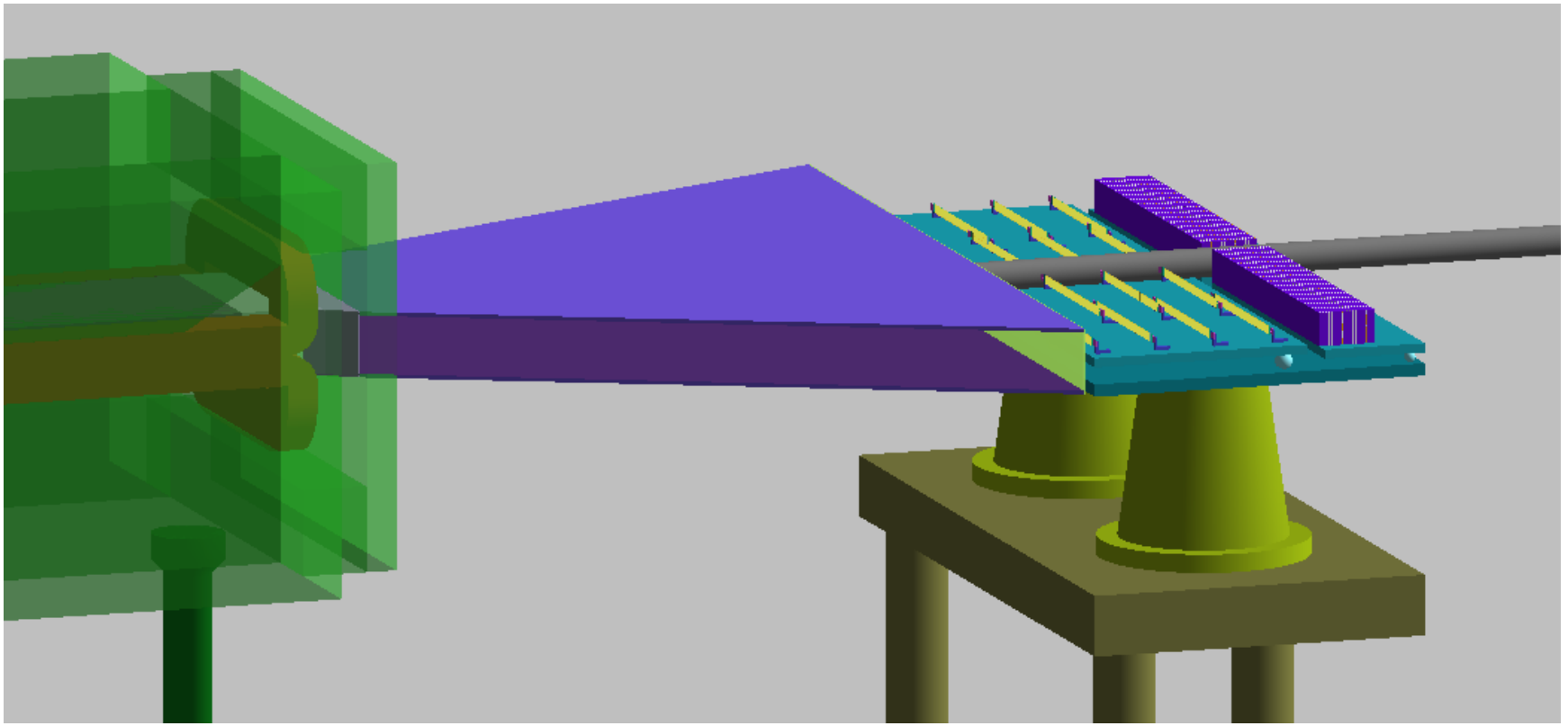




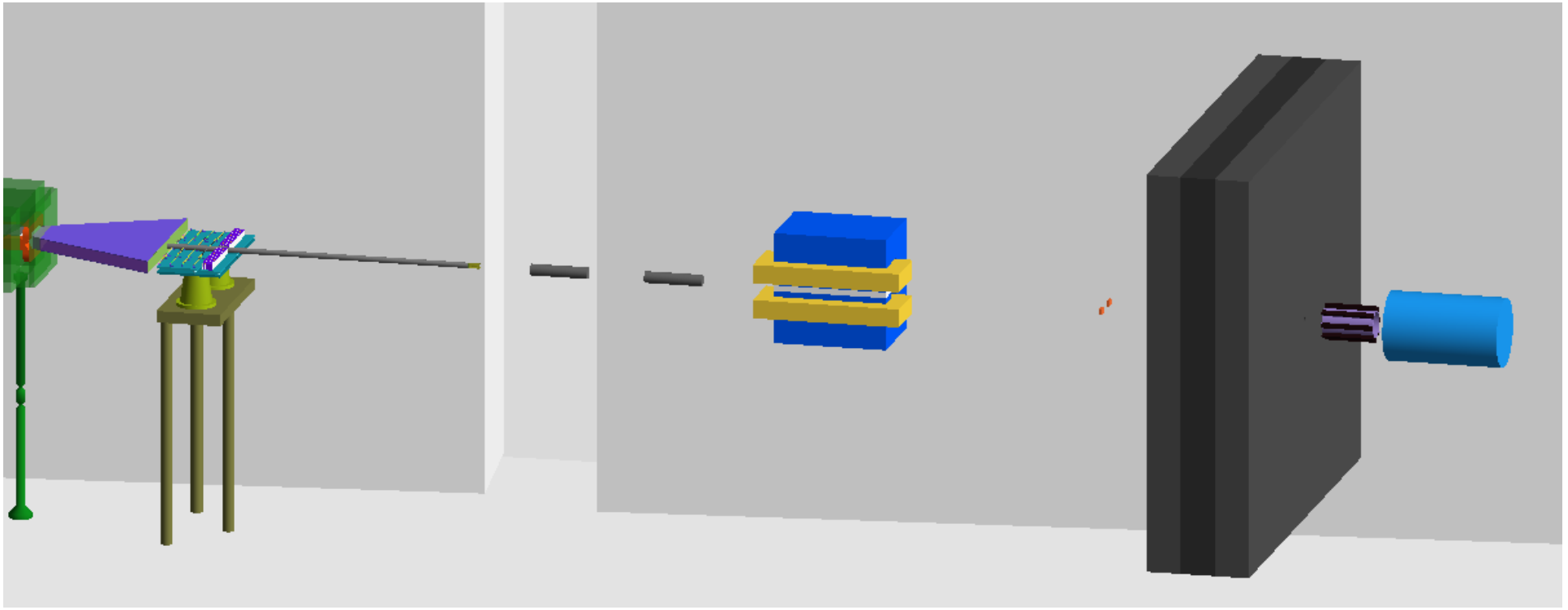
Bremsstrahlung



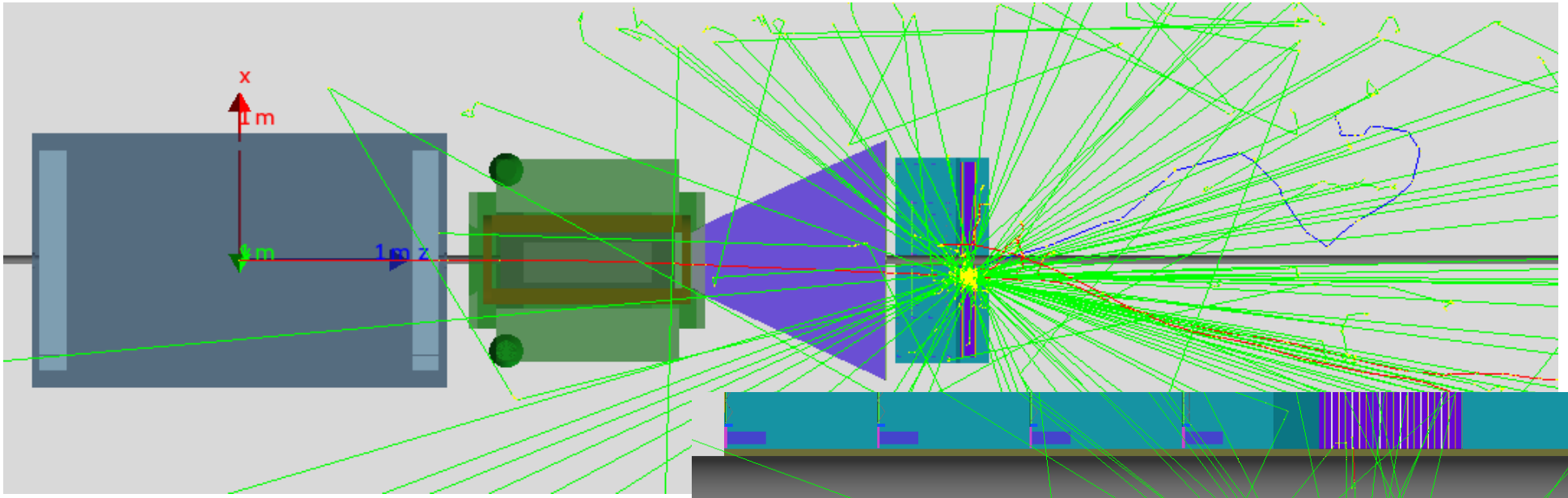
BPPP

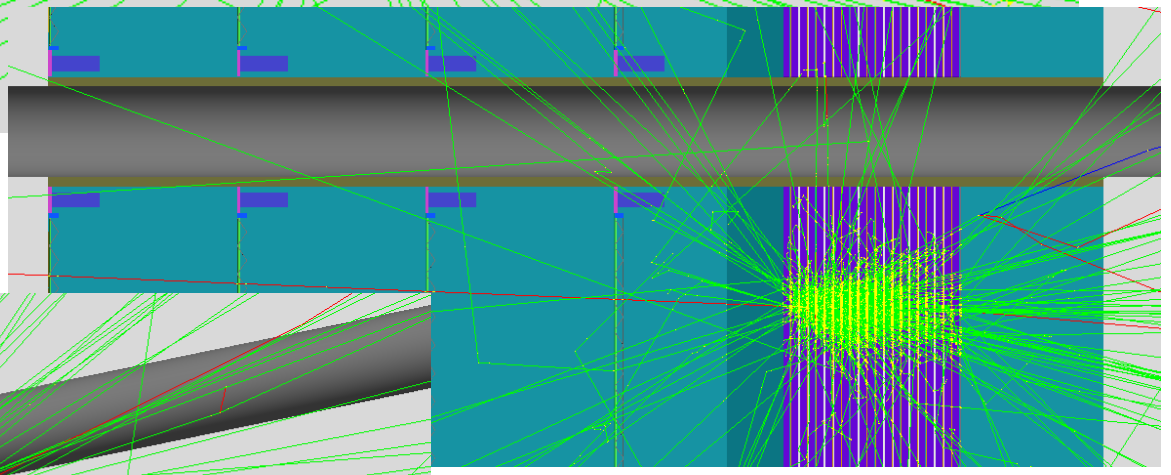


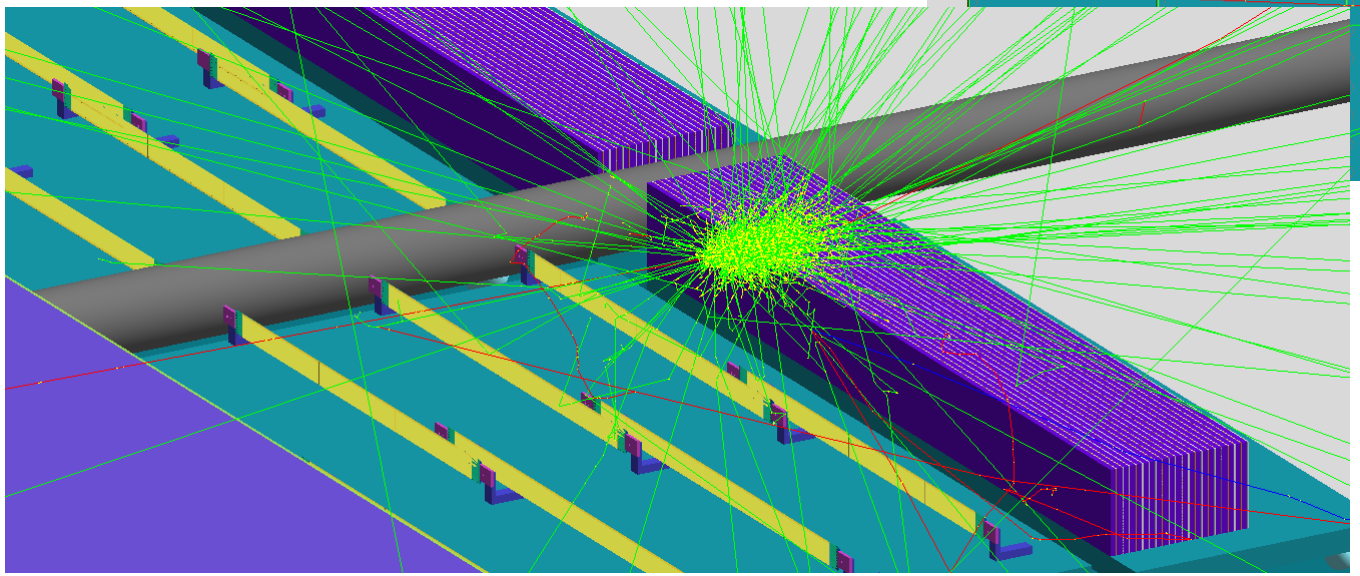
Gamma spectrometer



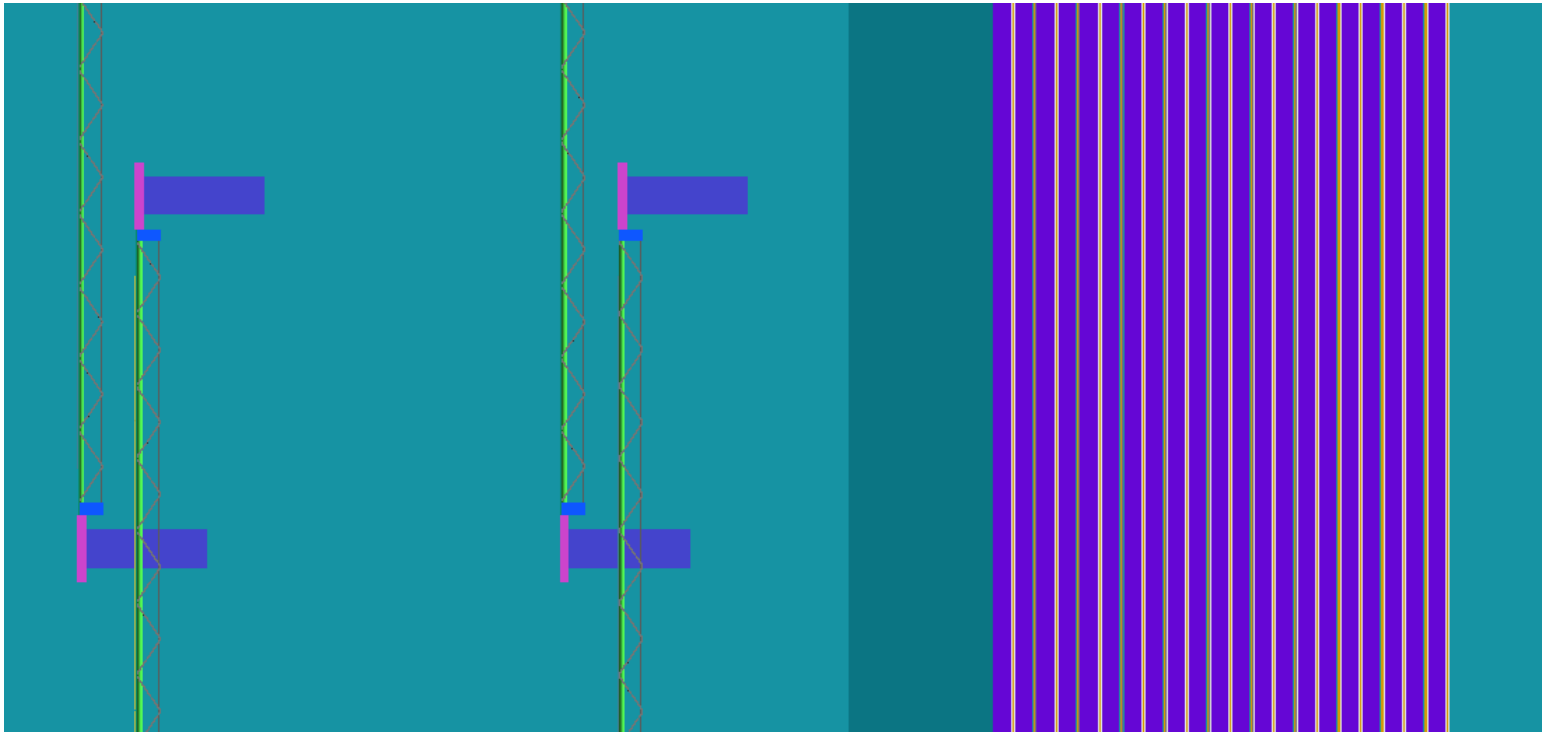
e- 12.5 GeV

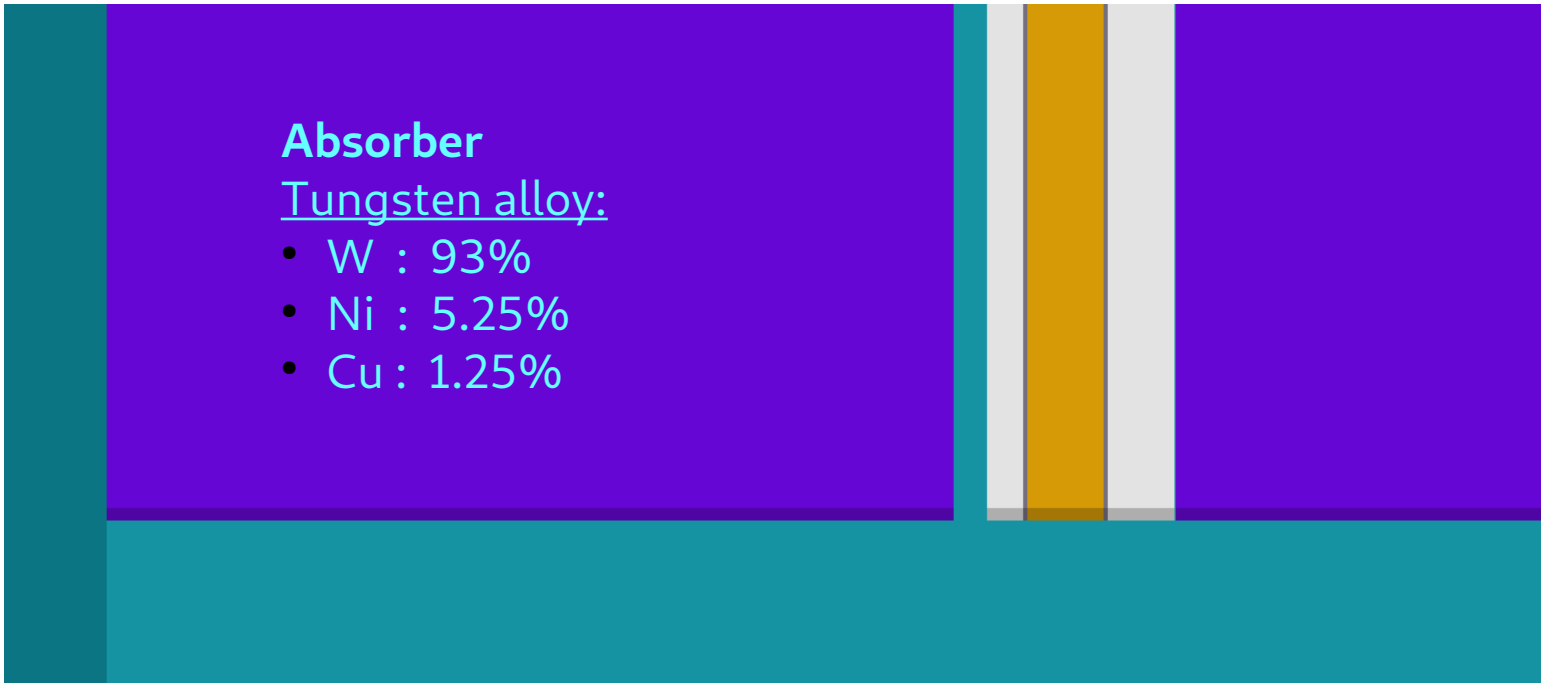






ECal implementation





Fanout and HV Kapton: mixture of
- Kapton,
- epoxy,
- Cu.

Fractions are proportional to layers thickness.

Silicon sensor: Si 320 um.

Air gap

Running Environment

Environment on NAF (or wherever CVMFS is available), Geant4 v 10.06:

```
. /cvmfs/sft.cern.ch/lcg/releases/LCG_97/Geant4/10.06.p01/x86_64-centos7-gcc8-opt/Geant4-env.sh
. /cvmfs/sft.cern.ch/lcg/releases/LCG_97/Geant4/10.06.p01/x86_64-centos7-gcc8-opt/bin/geant4.sh
# use cmake /cvmfs/sft.cern.ch/lcg/releases/LCG_97/CMake/3.14.3/x86_64-centos7-gcc8-opt/bin/cmake
```