

# README

Sample geometry: Compton camera with GAGG (Geant4 4.9.6.p03 code)

## History

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- 2016.11.11 created
- 2018.9.6. revised

## 1) Build & Run

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See [2\\_HowToBuild.pdf](#).

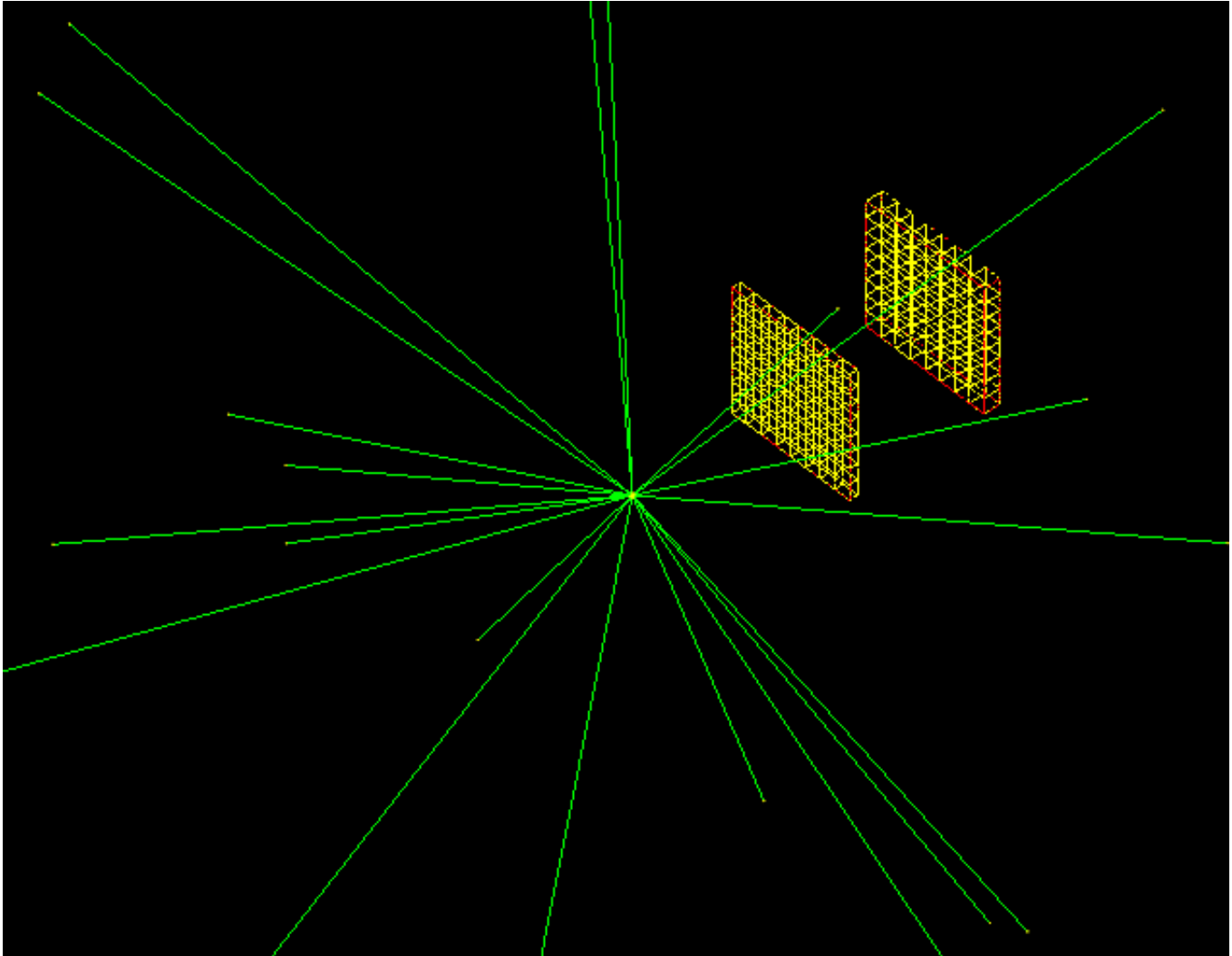
## 2) Geometry

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A Compton ring consists of two modules with inner diameter 20 cm and outer diameter 39 cm in atmospheric air. Each module has a scatter box (**Scabox**) and an absorber box (**Absbox**).

Scabox consists of 8x8 scatter voxels (**scavoxel**), which is 5x10x10mm. Absbox consists of 8x8 scatter voxels (**absvoxel**), which is 10x10x10mm. The distance between Scabox and the origin is 10 cm. The distance between Scabox and Absbox is 8 cm. (See source files for more information about GAGG properties and detail geometry.)

Both scavoxel and absvoxel are assign as “sensitive detector”. (See Geant4 guidance documents)



### 3) Source

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Point source: uniform irradiation of Cs-137 at the origin (0,0,0)

### 4) Output Data

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The simulation results are output in **result.txt**.

(See **AboutCode.pdf** and the corresponding source files for more information.)