

Agenda – 1 hour

- Github issues/PR
- Benchmarks, tests
- Towards next Gate release
- AOB ...

Github Issues & PRs

Positron range #379 (Minh Phuong Nguyen): in pro

Accolinearity #381 (Maxime Toussaint)

G4Radioactivation #378 (Alex Vergera Gil)

64Cu positron spectra problem #312 (TP. PHAM).

Fast I124 ion source #384 (Zhengzhi).

Generic Repeater, hit with a wrong head ID #347

PETscanner (cubicArray & genericRepeater) #296

• GATE Error related to SPECT FFD Example #351

in progress (David)

mwe ok; Mirjam?

Lydia and Alex? Option to activate. WIP

Solved? Will close it soon

Replied, no more news. Will close it soon

Ane PR#396. test in progress

mwe ok; Christian? In progress

(not started yet, todo @Lyon)

• AnatomicalOrientation #359 (DavidB + Thomas + Alex) Maybe no code change but doc change

PR #391: material database ? DavidB. Check the db before merge + link to G4 NIST Mat

• PR #387: github actions, Docker Thomas, Alex work in progress; PR for docker scripts; doc todo; check qt + visu; severals docker at the same time? CMAKE options: all to start

... other issues

PR – towards 10.7

External dep:

- CLHEP: (G4 copy incomplete), need full CLHEP
 - To be discuss with G4
 - In the meantime: force the user to install clhep?
 - In the cmake, clhelp version 2.4.4.0
 - DavidB is on it!
- MetalO: (reading/writing mhd)
 - To be investigated; in the meantime: silent the warnings?
 - Check AnatomicalOrientation Issue #359
 - DavidB is on it!
- ECAT/LMF:
 - Can we put them in external, auto compile with make
 - (Add flag to remove warning)
 - Done! PR in progress. Who can test? Karl!

Gate benchmarks

- Automatization (github action)
- https://github.com/OpenGATE/GateBenchmarks

- Need some changes to store results from previous version
 - As a git submodule, stored on gitlab (because no restriction on LFS)

```
git clone --recursive <a href="https://github.com/OpenGATE/GateBenchmarks.git">https://github.com/OpenGATE/GateBenchmarks.git</a> git submodule update --recursive --remote
```

Benchmarks tests proposal

• T1: gamma, proton, carbon depth dose. 90% Done

• T2: voxelized navigation and dose (gamma). 90% Done

• T3: generic ion electron range 50% Done

• T4: PET NECR 75% Done

• T5: complete (fake) PET system. To be updated

• T6: DPK: Lydia proposed a notebook. Several PL. To be adapted

Add Generic ion source in DPK example. Alex

Proposals

- RadioactiveDecay: Nicolas Arbor. In progress
- Mesh and merge actor(mesh inside vox): Julien Bert. In progress
- Optical: Carlotta, Mathieu?
- Fix GateScintillation issue #346 #368; Carlotta, Mathieu?
- Commit to fix #352 multi system, GateDeadTime. #369; prepare test?

Next Gate release

- With next Geant4 10.7 (dec 2020)
- To date, almost only bug corrections
- Proposal: version 9.1, early 2021



- Adapt current version to Geant4 10.7
 - Compilation is now with 10.7 (only)
 - (LATER) Plan to provide a docker image (Thomas, put docker file on git)
 - (LATER) Plan to provide vGate (virtual machine)

GATE web site

New site is online!

http://www.opengatecollaboration.org

- Lot of fine-tuning todo
- Keep asking for cookies
- Logins asked
 - Lydia, DavidB, DavidS, NilsK





Happy new year!



