



Agenda – 1 hour

- Pull Request (PR)
- Issues
- Benchmarks
- AOB ...

PR

- #440: optical simulation: **Mathieu**
 - Check bench with t10
 - Decay with QGSP_BERT_EMZ (fail)
 - WIP
 - **Warning:** PDG optical photon changes !
- #436: docs: **Thomas**
- #398: LMF/ECAT: **D. Boersma**

Issues

- #441: SpectrumActor ?
- #435: nb delayed wrt random coincidences (PET) **S. Jan ?**
- #360: 1e9 primary
- #431: Magnetic field (permeability) **D. Haberl**
- #426: photon polarization in phsp : **a new option needed (Strasbourg, Grenoble?)**
- #413: PDGCode in phsp ? **D. Leibold**
- #359: rounding in mhd ? Need a testcase
- Not an issue yet: dose in repeated volumes **Nicolas Sas**
- ...

- Still
 - #379: positron range
 - #381: acolinearity
 - #351: SPECT FFD (RTK)

Release 9.1 (with G4 10.7) is done

- Docker: DONE
- VM ?
 - Ask Maxime for script: Thomas
 - Store on google drive
- Work is continuing in branch “develop”
- Every PR:
 - Automatic compilation on Linux ++ OSX with various options
 - Automatic benchmarks (linux only for the moment)
 - OSX possible ? Maybe long

📄 LGPL-3.0 License

🏷️ v9.1 **Latest**
20 days ago

Benchmarks status

Test name	Status	Comment
t1_edep_profiles	100%	
t2_edep_vox	100%	
t3_range_e+	100%	Ok wrt historical values ; still difference with litterature
t4_necr	100%	
t5_pet	100%	(fake PET)
t6_dpk	100%	
t7_garf test	100%	(need libtorch)
t8_let_actor	100%	
t9_gaga_phsp	100%	(need libtorch)
t10_spectro_gamma	100%	
t11_EM_field	100%	

Future benchmarks ?

- Optical: **Carlotta, Mathieu, Mirjam ?**
- Mesh and merge actor (mesh inside vox): **Julien Bert. In progress.**
 - **Start by mesh benchmark: to include**
 - **Still warnings with merge actor**
- Positronium (polarized-Livermore PL) ? **Wojciech. In progress.**
- Accolnearity ? **Mirjam/MaximeT**
 - **WIP. Discussion pending (Karl et al.)**
 - **Add a debug option to dump data.**