HSF Detector Simulation Working Group Meeting

https://hepsoftwarefoundation.org/workinggroups/detsim.html

18.09.2023

Conveners:
John Chapman (ATLAS, University of Cambridge)
Krzystof Genser (Mu2e, Geant4, Fermilab)
Sandro Wenzel (ALICE, Geant4, CERN)

Today's topic

- Concerned with **optimisation of Geant4 code** ….

- … this time **not as a framework development** (models, accelerators R&D, etc.)

- … **but on the client** side targeting a reduction in the number of useless "MC steps" performed

  - by tuning parameter knobs that Geant framework is giving to us

- Goal is i**nformation exchange about previous experience** in this area and learn about **current developments**

Format

- 2 Speakers:

  - Walter Hopkins, ATLAS

  - Benedikt Volkel, ALICE

- Please "raise hand" on zoom to ask questions or make comments

- Please defer longer comments or questions requiring longer answers till after the end of the talk

Next meetings / organisational

- We are soliciting contributions to the to be scheduled sessions on

  - **Extensions to the standard Geant4 Physics models** that experiments are using in their detector simulations, but which have **not been pushed back** to the main Geant4 repository

- Please feel free to contact the conveners to suggest additional topic, ideas for discussion, volunteer a talk or provide feedback

- If you are not a member of the HSF Detector Simulation Google Group/Mailing List and would like to join, please go to: https://groups.google.com/g/hsf-simulation

- The main HSF mailing list link: https://groups.google.com/g/hsf-forum