HSF Detector Simulation Working Group Meeting
https://hepsoftwarefoundation.org/workinggroups/detsim.html

(New) Conveners:

Ben Morgan (ATLAS, Geant4, The University of Warwick)
Kevin Pedro (CMS, Fermilab)
Krzysztof Genser ((Mu2e), Geant4, Fermilab)

22nd of February 2021

- Thank you to former conveners:
  - Philippe Canal, Gloria Corti & Witek Pokorski
- New Meeting time: (Some) Mondays 17:30 Central European Time (CET) or Central European Summer Time (CEST)
- Today's talk:
  - Muon Collider Detectors
    - Speaker: Nazar Bartosik (University & INFN Torino (IT))
- Next Meeting: 8th of March 2021
  - Matthew Szydagis will talk about NEST (Noble Element Simulation Technique)

- Plans for future meetings
  - Computational challenges in future detectors
  - Simulation for liquid noble gas detectors
  - Use of GPUs and similar accelerators
  - Developments in ML for simulation
  - Geometry: recent developments and experiences with DD4hep, VecGeom
    - In coordination with Reconstruction and Software Triggers Working Group
  - Use of non Geant4 simulation toolkits by experiments
  - Dealing with pile-up (possible cross-link with Frameworks, Reconstruction?)
- Will coordinate with Geant4 Task Force for R&D and other HSF Working Groups to avoid duplication and identify possible joint meetings
- Further ideas and input very welcome, especially for cross-Working Group items
  - Feel free to contact the conveners to suggest a topic, volunteer a talk or provide feedback
- If you are not a member of the Detector Simulation Google Group and would like to join, please go to: https://groups.google.com/g/hsf-simulation