WG 5.2.1 Meeting Simulation - Phase-I

September 29th 2022 Marco Leite (USP)

Recap: What is Phase-I?

- 1) Radiation interaction with LGAD and other structures and hits output
 - a) Geant-4
- 2) Electrical field inside LGAD and I(t) output
 - a) TCAD
- 3) Standardize a format in a framework for data exchange between packages
- 4) Document the steps and results here:

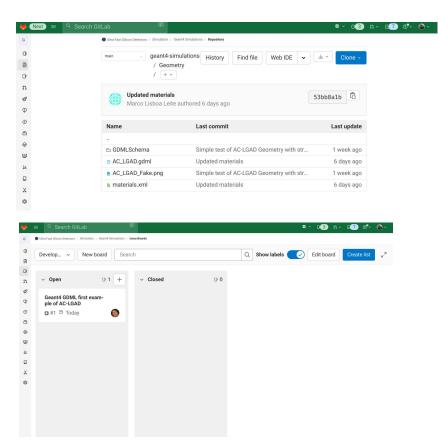
https://ultra-fast-silicon-detectors.gitlab.io/documentation/ufsd_online_documentation/

5) Gitlab repository:

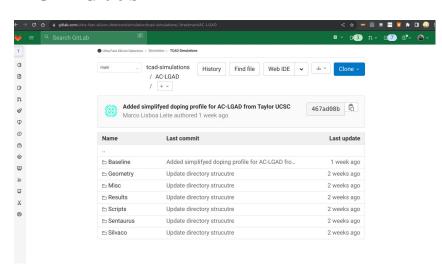
https://gitlab.com/ultra-fast-silicon-detectors/simulation

We will soon move to a new repository with full Gitlab license (TBA)

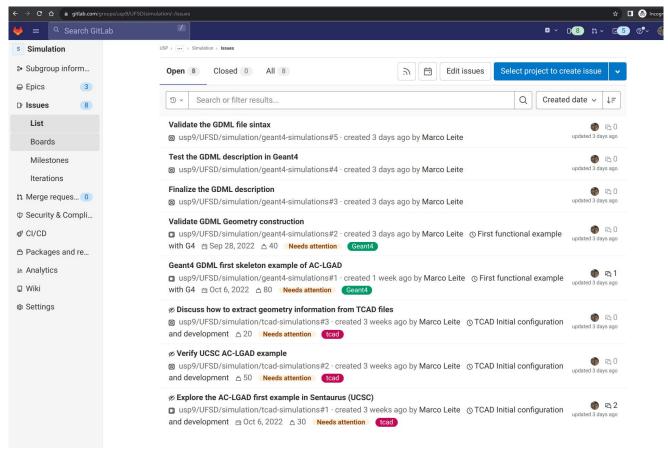
Geant4 Gitlab



TCAD Gitlab



- We will follow the tasks, milestones etc. using Git
- All communication preferably done creating/answering the directly the issues



- 1) Let's discuss today at the end of the meeting a set of issues/goals
 - a) Follow the progress discussion opening/closing the issues on gitlab
 - b) Roadmap for the next 30 days (and beyond)
 - c) Give a weight (more important/less important) to each issue
 - d) Present the progress in the weekly meetings, with action items for next week

Our main goal and high priority is to give a simulation status report (G4 first results and TCAD E field) next week at the joint São Paulo - UC Santa Cruz meeting

Please register as an external user in Indico if you did not do it already !!!