

JIRA tasks update

Weeks 16 September - 8 October 2019

Updated tasks

- [SIM-366](#) – A.Ribon
 - Grid validation of Geant4
- [SIM-757](#) – V.Ivantchenko
 - New GEM model
- [SIM-763](#) – D.Sorokin
 - Better cope with looping tracks
- [SIM-765](#) – G.Folger
 - Integration Testing, move to recent software versions

Completed tasks

- [SIM-745](#) – V.Ivantchenko
 - Evaluate on "global process" approach for gamma and electrons
- [SIM-756](#) – V.Ivantchenko
 - Create gamma de-excitation into FermiBreakUp decay chains

New tasks

- [SIM-769](#) – V.Ivantchenko (10.5.Oct)
 - Provide an option to upload all data on nuclear levels before the first event
- [SIM-770](#) – V.Ivantchenko (10.5.Oct)
 - G4ElasticHardNuclearHE class clean-up

Rescheduled tasks

- [SIM-687](#) – J.Apostolakis (10.5.Sep ↔ 10.5.Oct)
 - Extend testing of EM shower shape with more realistic geometries and more angles
- [SIM-690](#) – J.Apostolakis (10.5.Sep ↔ 10.5.Oct)
 - Create realistic setup for testing of EM showers in ATLAS EM-Barrel geometry
- [SIM-707](#) – V.Ivantchenko (10.5.Sep ↔ 10.5.Nov)
 - Extended high energy positron annihilation
- [SIM-724](#) – G.Folger (10.5.Sep ↔ 10.5.Oct)
 - Migrate web tools on geant4-tools.web.cern.ch OFF of AFS
- [SIM-743](#) – M.Novak (10.5.Sep ↔ 10.5.Nov)
 - Introduction of detailed test of stepping for EM calorimeters triggered by ATLAS
- [SIM-746](#) – V.Ivantchenko (10.5.Sep ↔ 10.5.Nov)
 - Introduction of gamma linear polarisation option to be applied to any EM physics configuration
- [SIM-751](#) – V.Ivantchenko (10.5.Sep ↔ 10.5.Nov)
 - Evaluate new ion ionisation models for moderate and high energies
- [SIM-754](#) – V.Ivantchenko (10.5.Sep ↔ 10.5.Nov)
 - Deployment of new model of the three gamma annihilation
- [SIM-757](#) – V.Ivantchenko (10.5.Sep ↔ 10.5.Nov)
 - New GEM model
- [SIM-763](#) – D.Sorokin (10.5.Sep ↔ 10.5.Oct)
 - Better cope with looping tracks
- [SIM-765](#) – G.Folger (10.5.Sep ↔ 10.5.Oct)
 - Integration Testing, move to recent software versions
- [SIM-767](#) – G.Folger (10.5.Sep ↔ 10.5.Oct)
 - Integration testing: review/update platforms
- [SIM-768](#) – J.Apostolakis (10.5.Sep ↔ 10.5.Oct)
 - Reversed points when advancing integration during field propagation