

JIRA tasks update

Weeks 10 December 2019 – 3 March 2020

Updated tasks

- [SIM-366](#) – A.Ribon
 - Grid validation of Geant4
- [SIM-768](#) – J.Apostolakis
 - Reversed points when advancing integration during field propagation

New tasks

- [SIM-771](#) – A.Ribon (10.6-Jun)
 - Find a solution to the problem of missing decay channels for heavy hadrons in Geant4
- [SIM-772](#) – A.Ribon (10.6-Jun)
 - Include heavy hadron nuclear inelastic interactions in physics lists
- [SIM-773](#) – V.Ivantchenko (10.6-Mar)
 - Move EM testing suite location at EOS in the right place
- [SIM-774](#) – V.Ivantchenko (10.6-Mar)
 - Destruction of physics end of run
- [SIM-775](#) – V.Ivantchenko (10.6-Apr)
 - New G4PARTICLEXS3.0 dataset

Rescheduled tasks

- [SIM-607](#) – J.Apostolakis (10.5.Dec ⇨ 10.6.Mar)
 - Check Fatras use of Geant4 Hadronic Interaction as 'Generator'
- [SIM-608](#) – J.Apostolakis (10.5.Dec ⇨ 10.6.Jun)
 - Improve behaviour of propagation in electric field for stopping particles
- [SIM-617](#) – J.Apostolakis (10.5.Dec ⇨ 10.6.Mar)
 - Refine IntersectionLocator which includes a check mode
- [SIM-687](#) – J.Apostolakis (10.6.Jan ⇨ 10.6.Mar)
 - Extend testing of EM shower shape with more realistic geometries and more angles
- [SIM-690](#) – J.Apostolakis (10.6.Jan ⇨ 10.6.Mar)
 - Create realistic setup for testing of EM showers in ATLAS EM-Barrel geometry
- [SIM-710](#) – A.Ribon (10.5.Dec ⇨ 10.6.Dec)
 - Hadron elastic : development, validation, integration in physics lists, and effects on hadronic showers
- [SIM-711](#) – A.Ribon (10.5.Dec ⇨ 10.6.Dec)
 - Hadronic string models : development, code improvements, validation and impact on hadronic showers
- [SIM-716](#) – A.Ribon (10.5.Dec ⇨ 10.6.Dec)
 - Compare EPOS with Geant4 hadronic string models

Rescheduled tasks - 2

- [SIM-735](#) – G.Folger (10.6.Feb → 10.6.Mar)
 - Start looking into Drupal 8
- [SIM-736](#) – G.Folger (10.5.Dec → Unscheduled)
 - Develop pipeline Jenkins job to trigger Continuous builds
- [SIM-743](#) – M.Novak (10.5.Dec → 10.6.Jul)
 - Introduction of detailed test of stepping for EM calorimeters triggered by ATLAS
- [SIM-747](#) – M.Novak (10.5.Dec → 10.6.Dec)
 - Further tuning and Optimisation of options for the Goudsmit-Saunderson model for HEP applications
- [SIM-748](#) – M.Novak (10.5.Dec → 10.6.Jul)
 - New single scattering model for e+- based on ELSEPA (numerical Dirac-Fock PWA)
- [SIM-751](#) – V.Ivantchenko (10.6.Feb → 10.6.Apr)
 - Evaluate new ion ionisation models for moderate and high energies
- [SIM-757](#) – V.Ivantchenko (10.6.Feb → 10.6.May)
 - New GEM model
- [SIM-760](#) – G.Folger (10.5.Dec → 10.6.Mar)
 - Migrate to new Jenkins server
- [SIM-768](#) – J.Apostolakis (10.6.Jan → 10.6.Mar)
 - Reversed points when advancing integration during field propagation