

JIRA tasks update

Weeks 2 October – 27 November 2018

Updated tasks

- [SIM-366](#) – A.Ribon
 - Grid validation of Geant4
- [SIM-659](#) – J.Apostolakis
 - Use interpolation, when available, in Integration Driver
- [SIM-710](#) – A.Ribon
 - Hadron elastic : development, validation, integration in physics lists, and effects on hadronic showers
- [SIM-711](#) – A.Ribon
 - Hadronic string models : development, code improvements, validation and impact on hadronic showers
- [SIM-721](#) – J.Apostolakis
 - Improve handling of particles which take a large number of integration iterations in tracking in a magnetic field
- [SIM-723](#) – G.Folger
 - Use of dataset from AFS
- [SIM-729](#) – A.Ribon
 - CALICE hadron timing issue in Tungsten
- [SIM-731](#) – V.Ivantchenko
 - Light fragment production by carbon ion beam

Completed tasks

- [SIM-667](#) – V.Ivantchenko
 - Validate and tune of the new GEM model
- [SIM-708](#) – V.Ivantchenko
 - Positron annihilation to 3 gamma
- [SIM-715](#) – A.Ribon
 - Geant4 interface to (Fortran) EPOS hadronic generator
- [SIM-718](#) – J.Apostolakis
 - Different tracking between sequential and single-threaded simulation in ATLAS
- [SIM-732](#) – V.Ivantchenko
 - Make G4PARTICLEXS data set
- [SIM-733](#) – V.Ivantchenko
 - Review Shielding Physics List CPU degradation for 10.4ref07
- [SIM-734](#) – G.Folger
 - Add new FragTest verification code to testing and release building

New tasks

- [SIM-736](#) – G.Folger (10.4.Dec)
 - Develop pipeline Jenkins job to trigger Continuous builds
- [SIM-737](#) – G.Folger (10.4.Nov)
 - Add new platforms to testing

Rescheduled tasks

- [SIM-374](#) – J.Apostolakis (10.4.Oct ⇨ 10.4.Dec)
 - Study possibility to change position of charged particle by multiple scattering process AlongStep
- [SIM-659](#) – J.Apostolakis (10.4.Oct ⇨ 10.4.Nov)
 - Use interpolation, when available, in Integration Driver
- [SIM-687](#) – J.Apostolakis (10.4.Oct ⇨ 10.5.Jun)
 - Extend testing of EM shower shape with more realistic geometries and more angles
- [SIM-705](#) – V.Ivantchenko (10.4.Oct ⇨ 10.5.May)
 - Implement photo-effect model parameterisations based on new EPICS2017 data
- [SIM-707](#) – V.Ivantchenko (10.4.Oct ⇨ 10.5.Mar)
 - Extended high energy positron annihilation
- [SIM-721](#) – J.Apostolakis (10.4.Oct ⇨ 10.4.Nov)
 - Improve handling of particles which take a large number of integration iterations in tracking in a magnetic field
- [SIM-723](#) – G.Folger (10.4.Oct ⇨ 10.5.Feb)
 - Use of dataset from AFS