

JIRA tasks update

Weeks 12 November - 10 December 2019

Updated tasks

- [SIM-366](#) – A.Ribon
 - Grid validation of Geant4
- [SIM-705](#) – V.Ivantchenko
 - Implement photo-effect model parameterisations based on new EPICS2017 data
- [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-716](#) – A.Ribon
 - Compare EPOS with Geant4 hadronic string models
- [SIM-768](#) – J.Apostolakis
 - Reversed points when advancing integration during field propagation

Completed tasks

- [SIM-765](#) – G.Folger
 - Integration Testing, move to recent software versions
- [SIM-767](#) – G.Folger
 - Integration testing: review/update platforms

Rescheduled tasks

- [SIM-688](#) – V.Ivantchenko (10.5.Nov \mapsto 10.6.Mar)
 - Systematise the monitoring of energy deposition in descriptions of ATLAS TileCal
- [SIM-705](#) – V.Ivantchenko (10.5.Nov \mapsto 10.6.Oct)
 - Implement photo-effect model parameterisations based on new EPICS2017 data
- [SIM-707](#) – V.Ivantchenko (10.5.Nov \mapsto 10.6.May)
 - Extended high energy positron annihilation
- [SIM-746](#) – V.Ivantchenko (10.5.Nov \mapsto 10.6.May)
 - Introduction of gamma linear polarisation option to be applied to any EM physics configuration
- [SIM-750](#) – M.Novak (10.5.Nov \mapsto 10.6.Jun)
 - Review model for sampling fluctuations of e^{+-} , look for the alternative model
- [SIM-751](#) – V.Ivantchenko (10.5.Nov \mapsto 10.6.Feb)
 - Evaluate new ion ionisation models for moderate and high energies
- [SIM-754](#) – V.Ivantchenko (10.5.Nov \mapsto 10.6.May)
 - Deployment of new model of the three gamma annihilation
- [SIM-755](#) – V.Ivantchenko (10.5.Nov \mapsto 10.6.May)
 - Addition of tau pair production by positrons
- [SIM-757](#) – V.Ivantchenko (10.5.Nov \mapsto 10.6.Feb)
 - New GEM model
- [SIM-768](#) – J.Apostolakis (10.5.Nov \mapsto 10.6.Jan)
 - Reversed points when advancing integration during field propagation