

# JIRA tasks update

Weeks 14 – 28 April 2015

# Updated tasks

- [SIM-18](#) – V.Uzhinskiy
  - Improvements to Geant4 QGS model
- [SIM-228](#) – A.Ribon
  - Memory performance of hadron inelastic
- [SIM-278](#) – V.Ivantchenko, M.Novak
  - Improvements to Goudsmit-Saunderson multiple-scattering model
- [SIM-381](#) – G.Folger
  - Testing of Geant4 multi-threading
- [SIM-433](#) – J.Apostolakis
  - Address issue of particle going far outside ATLAS
- [SIM-465](#) – G.Folger
  - Migrate from EC to jenkins for managing nightly testing
- [SIM-514](#) – G.Folger
  - Create new puppet managed servers to replace quattor managed machines

# New tasks

- [SIM-596](#) – W.Pokorski (2015/Q2)
  - Eliminate duplicated reflected volumes in G4->GDML conversion
- [SIM-597](#) – J.Apostolakis (10.1.May)
  - Improve robustness of G4Navigator for tracks drifting outside the current mother volume
- [SIM-598](#) – V.Ivantchenko (10.1.Jun)
  - Use new classes for cross sections in pre-compound model
- [SIM-599](#) – V.Ivantchenko (2015/Q2)
  - Fix EM Physics List documentation in the web
- [SIM-600](#) – V.Ivantchenko (2015/Q2)
  - Prepare EM code for 10.1 patch02

# Completed tasks

- [SIM-481](#) – W.Pokorski
  - Quasi-elastic process code review and optimisation
- [SIM-588](#) – G.Cosmo
  - Ability to import and export geometrical regions in GDML

# Rescheduled tasks

- [SIM-18](#) – V.Uzhinskiy (10.1.Apr → 10.1.May)
  - Improvements to Geant4 QGS model
- [SIM-145](#) – G.Folger (2015/Q2 → 10.1.Jul)
  - Review of the Binary cascade (BIC) hadronic model
- [SIM-147](#) – G.Folger (2015/Q2 → 10.1.Jun)
  - Documentation for HEP hadronic use cases and physics lists
- [SIM-223](#) – A.Ribon (Unscheduled → 2015/Q2)
  - Memory performance of Geant4 physics for showers in calorimeters
- [SIM-225](#) – A.Ribon (Unscheduled → 2015/Q2)
  - Memory performance of gamma- and electro-nuclear physics
- [SIM-226](#) – A.Ribon (Unscheduled → 2015/Q2)
  - Memory performance of hadronic elastic
- [SIM-228](#) – A.Ribon (Unscheduled → 2015/Q2)
  - Memory performance of hadron inelastic
- [SIM-242](#) – G.Folger (2015/Q2 → 10.1.Aug)
  - Study the possibility to generate a traceback in case of crash of a test
- [SIM-287](#) – G.Folger (2015/Q2 → 10.1.Jul)
  - Investigate newly seen Energy non-conservation

# Rescheduled tasks - 2

- [SIM-327](#) – V.Uzhinskiy (10.1.Apr → 10.1.May)
  - Add Reggeon Cascade to QGS
- [SIM-328](#) – V.Uzhinskiy (10.1.Apr → 10.1.May)
  - Review and improve the sampling of the kinematical properties of quarks and diquarks in QGS
- [SIM-329](#) – V.Uzhinskiy (10.1.Apr → 10.1.May)
  - Include Fermi motion in QGS
- [SIM-330](#) – V.Uzhinskiy (10.1.Apr → 10.1.May)
  - Tuning of QGS parameters
- [SIM-381](#) – G.Folger (2015/Q2 → 10.1.May)
  - Testing of Geant4 multi-threading
- [SIM-382](#) – G.Folger (2015/Q2 → 10.1.May)
  - Create test(s) to check developments are G4MT compatible
- [SIM-383](#) – G.Folger (2015/Q2 → 10.1.May)
  - Create test(s) to check for new static/global variables
- [SIM-386](#) – G.Folger (2015/Q2 → 10.1.Jun)
  - Enhance integration testing to check memory access
- [SIM-463](#) – G.Folger (2015/Q3 → 10.1.Nov)
  - Improve physics list documentation

# Rescheduled tasks - 3

- [SIM-465](#) – G.Folger (10.1.Apr → 10.1.May)
  - Migrate from EC to jenkins for managing nightly testing
- [SIM-553](#) – G.Folger (2015/Q2 → 10.1.Jul)
  - Check for unending loops - physics-lists
- [SIM-578](#) – G.Folger (2015/Q2 → 10.1.Aug)
  - Check for unending loops - Binary cascade/RPG
- [SIM-583](#) – G.Folger (2015/Q2 → 10.1.Oct)
  - Check for unending loops - theo/im\_r\_matrix/management
- [SIM-514](#) – G.Folger (Unscheduled → 10.1.May)
  - Create new puppet managed servers to replace quattor managed machines
- [SIM-593](#) – G.Folger (2015/Q3 → 10.1.Sep)
  - Web migration: G4 Tags database and Web Interface
- [SIM-594](#) – G.Folger (2015/Q3 → 10.1.Sep)
  - G4 web migration: mirror of web site