

JIRA tasks update

Weeks 12 December 2023 – 14 May 2024

Updated tasks

- [SIM-366](#) – A.Ribon
 - Grid validation of Geant4
- [SIM-690](#) – L.Pezzotti
 - Create realistic setup for testing of EM showers in ATLAS EM-Barrel geometry

New tasks

- [SIM-827](#) – V.Ivantchenko (11.2-May)
 - Update MT initialisation of EM physics
- [SIM-828](#) – V.Ivantchenko (11.2-Jul)
 - Migration of EM testing suite to AlmaLinux9 and Python3
- [SIM-829](#) – V.Ivantchenko (11.2-Oct)
 - Development of a new 5D angular generator for e^+e^- pair production
- [SIM-830](#) – V.Ivantchenko (11.2-May)
 - Include 3-gamma annihilation model into Geant4 Physics List
- [SIM-831](#) – V.Ivantchenko (11.2-Jun)
 - Design an interface allowing transport and decay of positronium

Rescheduled tasks

- [SIM-687](#) – L.Pezzotti (11.1-Dec \mapsto 11.2-Jun)
 - Extend testing of EM shower shape with more realistic geometries and more angles
- [SIM-690](#) – L.Pezzotti (11.1-Dec \mapsto 11.2-Jun)
 - Create realistic setup for testing of EM showers in ATLAS EM-Barrel geometry
- [SIM-710](#) – A.Ribon (11.1-Dec \mapsto 11.2-Dec)
 - Hadronic string models : development, code improvements, validation and impact on hadronic showers
- [SIM-711](#) – A.Ribon (11.1-Dec \mapsto 11.2-Dec)
 - Hadron elastic : development, validation, integration in physics lists, and effects on hadronic showers
- [SIM-757](#) – V.Ivantchenko (11.2-Jan \mapsto 11.2-May)
 - New GEM model
- [SIM-816](#) – V.Ivantchenko (11.2-Feb \mapsto 11.2-May)
 - Introduction of EPICS2017 cross-sections as an option for standard gamma models