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# Geant4 2010 Workplan

This workplan for the LowE EM WG has been prepared by both electromagnetic working groups.

(1) is for June 2010

(2) is for December 2010

## 1. Physics

- Penelope 2008
  - ◆ (1) photon processes : Gamma Conversion, Rayleigh Scattering and PhotoElectric Effect
  - ◆ (2) e $\pm$  processes
- pair production in the electron electric field (2)
- radiative correction for pair production in the nuclear field (2)
- reimplementation of anti-proton model of ionisation (2) (+Std EM)
- feasibility study to improve low-energy parameterizations for bremsstrahlung (2) (+Std EM)
- validation effort allowing comparison of models between Low Energy and Standard EM (2) (+Std EM)
- web interface for validation (after publication of results) (2) (+Std EM)
- review of atomic shell energies (2) (+Std EM)

## 2. Software architecture

- general code review (2)
- cleaning of low energy category (2) (depends on decision of the next December release - minor/major) (+Std EM)
- evaluation of G4EmConfigurator approach for Physics Lists (2) (+Std EM)

## 3. Other applications

- Geant4-DNA (2 and beyond) (+Std EM)
- RBE modelling for radiobiology (2)

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This topic: Geant4 > LowEWorkplan2010

Topic revision: r4 - 2010-02-24 - SebastienIncerti



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