

EM Low Energy status for 9.6

- **Physics constructors**
 - Removal of `G4EMLowEnergyMUPhysics` constructor; replaced by : `G4EMLowEPPhysics` constructor
 - Livermore + new Monash U. Compton model
 - also users will be proposed to use `G4EmStandard_option4`
- **Gamma processes**
 - Livermore Photoelectric, Pair production & Rayleigh upgraded (usage of physics vectors, spline interpolation when possible...) – significant speed improvement maintaining % level accuracy
 - Livermore Compton ?
 - Monash U.: `G4LowEPComptonModel`
- **Microdosimetry processes for e- and ions in Silicon**
 - Extended coverage to relativistic energies
- **Common atomic deexcitation interface**
 - Full review : Livermore & Penelope give now similar for fluorescence spectra
- **Shell Ionisation cross section models**
 - Extension up to 100 MeV for protons and alphas (A. Taborda et al.)
 - Inclusion of dominant M1-5 shells (A. Taborda et al.)
- Requires `G4LEDATA 6.32`