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The Geant4 Low Energy Electromagnetic Physics Working Group

WARNING

This is the **old official web site (2008-2017)** of the **Geant4 collaboration Low Energy Electromagnetic Physics working group**.

These pages are not maintained anymore and have been migrated to Drupal.

The current version is available at this link:

http://geant4.web.cern.ch/collaboration/working_groups/electromagnetic.

Purpose

The **Geant4 Low Energy Electromagnetic Physics Working Group** develops and maintains a set of models to describe the **electromagnetic interactions of photons, electrons, positrons, hadrons and ions with matter down to very low energies (eV scale), including the Geant4-DNA project** ([link](#)), initiated and partly funded by the European Space Agency . Applications of such models range from high energy physics experiments to space science and astrophysics to the medical and biological fields. These activities take place **in full collaboration** with the Standard Electromagnetic Physics working group of the Geant4 collaboration.

What's new in Geant4 ? (December 2017)

- Overview of our most recent developments.
- Version 7.3 of the set of Low Energy electromagnetic data files is required.

Physics

- Processes is a link to the catalog of **Geant4 low energy electromagnetic Physics processes** and to other useful information related to these processes.
- Physics Lists describes **recommended Physics lists** for applications involving low energy electromagnetic Physics processes.
- Examples recommended for the **usage of Geant4 electromagnetic Physics**, and Geant4-DNA examples .

Tools

- Geant4 for VMware is a link to a **ready-to-use software suite allowing you to run entirely freely Geant4 (a so-called Geant4 Virtual Machine) and associated tools on a Windows PC or Mac under the VMware software without software installation needed** .
- Follow Geant4VM on Twitter for updates.
- Overview of testing coverage

Support

- Release notes is a summary of changes in the low energy package for each Geant4 release.
- User support is a link to the user forum electromagnetic processes category, where you can post your questions.

Communication and tutorials

- Journal publications [↗](#) lists all publications of the Geant4 collaboration, including electromagnetic Physics.
- In addition, our publications related to the **Geant4-DNA project** are available from this page [↗](#).
- Tutorials are announced on the Geant4 home page [↗](#), in the **Events** and **Past events** [↗](#) sections.

Collaborators

- The **official list of Geant4 collaboration members** belonging to this working group for the current year is available from this page.
- Institutions gives links to Geant4 web sites of institutions involved in this working group.

Our working group is open to any new collaborator. New collaborators will have the possibility to join officially the Geant4 collaboration after significant contribution to this working group and after approval by the Geant4 steering board.

Coordination

This working group is currently (2016-2017) managed by :

- **a coordinator** : Sébastien Incerti (CNRS/IN2P3/CENBG [↗](#), Bordeaux, France)
- **a deputy coordinator** : Luciano Pandola (INFN/LNS [↗](#), Catania, Italy)

Workplan

- Collaboration pages (restricted)

Our pages are **regularly updated**, thank you for your understanding and for your interest in the Geant4 Low Energy Electromagnetic working group.



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