

## Geant4 –Current and Future

*Friday, 9 May 2014 15:00 (1 hour)*

Geant4 is a general purpose Monte Carlo simulation tool for elementary particles passing through and interacting with matter. It finds quite a wide variety of user domains including high energy and nuclear physics, space engineering, medical applications, material science, radiation protection and security. Geant4 covers all relevant physics processes, electromagnetic, hadronic, decay, optical, for long and short lived particles, for energy range spanning from tens of eV to TeV scale. Geant4 geometry package allows the navigation of particles in most complex and realistic geometries. Geant4 has twenty years of history but it is still evolving in both physics coverage and computing architecture. In this talk, the current status and typical use-cases of Geant4 as well as the plans for the coming years will be introduced.

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