

## **Geant4 – Past, Current and Future**

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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. After 20 years with several architectural evolutions, Geant4 is still steadily evolving. One of the latest major evolutions was Geant4 version 10.0 released in December 2013 that is the first fully multithreaded large-scale physics software in the world. Given Geant4 is nowadays mission-critical for many users including all LHC experiments, space missions, medical applications, etc., Geant4 is to be kept maintained and still evolving for at least next decade.