

# Geant4 in production: status and developments

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Geant4 has become an established tool, in production for the majority of LHC experiments during the past two years, and in use in many other HEP experiments and for applications in medical, space and other fields. Improvements and extensions to its capabilities continue, while its physics modeling are refined and results are accumulating for its validation for a variety of uses. An overview of recent developments in diverse areas of the toolkit is discussed. These include developments that enable coupled propagation of charged particles in multiple geometries, improvements and refinements in EM physics and an overview of the evolution of the physics modelling. The progress in physics performance continues with a validation effort and physics comparisons with data in collaboration with different experiments and user groups. We review briefly also the progress in the validation suites for Geant4 releases.

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