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Radioactive Decay in Geant4: Status and Plans

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The Geant4 radioactive decay process, models and databases have undergone many upgrades during the past several years. These include refactoring the analog and biased decay to allow more efficient sampling, the modularization of the models which implement the various decay modes, physics improvements of the final state particle spectra for many of the decay modes, and the addition of new decay modes. Both the radioactive decay database and the photon de-excitation database have been extended and updated. Each of these topics will be discussed along with plans for future improvements. These improvements include further extensions of radioactive decay to include more decay modes, improved atomic de-excitation and an extensive set of validation plots.

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