

Nuclear spectroscopy with Geant4

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Comprehensive Monte-Carlo simulations using the Geant4 toolkit open the door for direct nuclear structure insights for a variety of physics cases, in particular when applied in a self-consistent way, i.e. confronting simulated data with real experimental data.

Extentions to the Geant4 source code are necessary to extend the usage of the simulation toolkit to cover, for instance, the heaviest man-made atomic nuclei or proton radioactivity.

Physics examples and Geant4 developments towards nuclear spectroscopy will be discussed.

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