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Fission Models in Geant4: Status and Plans

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Fission in Geant4 is currently simulated as both a separate process and as a de-excitation model in other inelastic processes. Several different models exist, each with different interfaces and functionalities. This has led to confusion about which models are used and what they do, and to the possibility of users double counting fission by incorrect assignment in physics lists. The inventory of Geant4 fission models will be discussed, highlighting the areas where physics is lacking or not yet addressed, and improvements which need to be made. Potential projects for the future will be presented, including re-organization and redesign of the fission interfaces, expansion of fission databases, physics improvement, validation and documentation.

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