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Geant4 pre-compound model and nuclear de-excitation module

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High and intermediate energy hadronic models should have a sub-model for simulation of nuclear de-excitation processes. In Geant4 there is a general pre-compound model and a general de-excitation module, which are used by many hadronic models. These models were recently modified and improved. Different aspects of these models are discussed and new validation results are presented.

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