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Title: Heavy Ion Simulation on Geant4

For the experiments at the RAON, the upcoming facility for heavy ion collision experiment in Korea, we plan to use Geant4 to simulate the interaction of the particles and the detector matter of the Monte Carlo generated sample.

As a preceding step, we test Geant4's physical validity with a simple set up of colliding a proton into a fixed target.

We vary various physics models built in Geant4 in order to select a model that describes the expected phenomena at the RAON the best.