

Heavy Ion Simulation using Geant4

RAON is the heavy ion accelerator of the Rare Isotope Science Project (RISP), which is carried by Institute for Basic Science (IBS) in Korea. As its name shows, RISP has the plan to produce rare isotopes and RAON is their key item of the plan.

Geant4 is the toolkit for the simulation of the passage of particles through matter. Using Geant4, plenty types of experiments could be run with the Monte-Carlo based simulation.

This Research is the validation of the simulation of the experiment which is planned for RAON. The simulation of the collision between Uranium-238 and liquid Hydrogen target is compared to the experiment data from the paper written by J. Taieb et al..

Primary author: LEE, Chan Young (Yonsei University)

Presenter: LEE, Chan Young (Yonsei University)