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Target Optimization Studies for Future High-Intensity Facilities

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A new tool is under development aimed at complementing the hadronic physics of GEANT4. The tool interfaces most of the standalone nuclear interaction models and the pre-equilibrium and evaporation models to Geant4. The tool can generate primary hadronic interactions between particles, ions, and matter. The tool has been designed to optimize the design of targets for the next generation of high-intensity facilities. In this talk, the physics of the interaction of proton beams on different target materials will be presented, and the results from different nuclear interaction models will be compared.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

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