

INFLUENCE OF MOMENTUM-DEPENDENT  
INTERACTIONS ON THE NUCLEAR STOPPING  
IN SYMMETRIC HEAVY-ION COLLISIONS

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S u m m a r y

The role of momentum-dependent interactions (MDI) in the nuclear stopping at intermediate energies using an isospin-dependent quantum molecular dynamics model is studied. The calculations are performed for incident energies between 50 and 1000 MeV/nucleon. Our findings show that the nuclear stopping is sensitive to the impact parameter, incident energy, and the mass of the colliding system. The degree of stopping is suppressed by the inclusion of MDI, whereas the particle production is not affected by MDI.