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Nuclear Theory

Model for projectile fragmentation: case study for Ni on Ta, Be and Xe on Al

S. Mallik, G. Chaudhuri, S. Das Gupta

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For projectile fragmentation we work out details of a model whose origin can be traced back to the Bevalac era. The model positions itself between the phenomenological EPAX parametrization and microscopic transport models like "Heavy Ion Phase Space Exploration Model" (HIPSE) and antisymmetrised molecular dynamics(AMD). We apply the model to some recent data of projectile fragmentation of Ni on Ta and Be at beam energy 140 MeV/nucleon and some older data of Xe on AI at beam energy 790 MeV/nucleon. Reasonable values of cross-sections for various composites populated in the reactions are obtained.

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