

Short individual project – titles – provisional list

Effect of continuum couplings on $^{11}\text{Be} + ^{208}\text{Pb}$ fusion near the barrier
Eikonal approximation, knockout and momentum distributions
Theory of the Berggren basis in the coupled channel method
DWBA and CC calculations for elastic and inelastic $^{10}\text{Be} + \alpha$ scattering
R-matrix analysis associated with the $^{60}\text{Ni}(p,g)$ reaction
Microscopic folding potentials for inelastic scattering and structure
Excitation function prediction for the $^8\text{Li}(p,p)$ reaction using R-matrix theory
Derivation of 1st and 2nd order perturbation for semi-classical method of Coulomb inelastic excitation
Heavy-ion fusion calculations using different models
Sensitivity of the $^{26}\text{Al}(d,p)$ reaction to uncertainties in the interactions
Study of the $^{12}\text{C}(d,p)^{13}\text{C}$ reaction with the coupled channels method
Knockout reaction of a two-body projectile
Sensitivity of the $^{20}\text{Ne}(d,p)$ reaction to uncertainties in the interactions
Transfer reaction and the single particle excitation of ^{11}Be
Sub-barrier fusion cross sections within the WKB approximation
Analysis of the fusion of ^8B within the CDCC method
Accuracy and efficiency of the CDCC and eikonal methods for elastic scattering
Time-dependent Hartree-Fock calculations for grazing reactions at intermediate energy
One neutron knockout from ^{106}Cd
Non-local potentials in the eikonal approximation
R-matrix study of the $^{21}\text{Ne}(p,\alpha)$ reaction
A new code for coupled channel alpha fusion (provisional)