

List of Publications of Hasan Maridi

Papers in peer-reviewed journals

- 1- **H.M. Maridi**, J. Singh, N.R. Walet, D.K. Sharp, “A two-cluster approach to the properties of one- and two-neutron-halo nuclei”, arXiv: [2407.03044 \(2024\)](https://arxiv.org/abs/2407.03044), submitted to [Phys. Lett. B](#).
- 2- **H.M. Maridi**, N. Keeley, and K. Rusek, “Simultaneous calculation of elastic scattering, fusion, and direct cross sections for reactions of weakly bound projectiles”, [Phys. Rev. C **109**, 034601 \(2024\)](#).
- 3- **H.M. Maridi**, K. Rusek, and N. Keeley, “Calculation of Coulomb breakup cross sections using a new Coulomb dynamical polarization potential”, [Phys. Rev. C **106**, 054613 \(2022\)](#).
- 4- A. T. Rudchik, ..., **H.M. Maridi**, ..., “Comparison of $^{10}\text{B} + ^6\text{Li}$ and $^{10}\text{B} + ^7\text{Li}$ elastic scattering: The role of ground state reorientation and breakup”, [Phys. Rev. C **106**, 014615 \(2022\)](#).
- 5- **H.M. Maridi**, K. Rusek, and N. Keeley, “Comparison of Coulomb breakup effects on the elastic scattering of ^6He and ^8He using a Coulomb dipole polarization potential”, [Eur. Phys. J. A **58**, 49 \(2022\)](#).
- 6- **H.M. Maridi**, K. Rusek, N. Keeley, “Coulomb dynamical polarization potential and the electric dipole polarizability for weakly-bound and neutron rich light nuclei”, [Phys. Rev. C **104**, 024614 \(2021\)](#).
- 7- **H.M. Maridi**, A. Pakou, and K. Rusek, “The $p + ^9\text{Be}$ elastic scattering below 30 MeV: optical model analysis and data normalization”, [Int. J. Mod. Phys. E **30**, 2150024 \(2021\)](#).
- 8- A. T. Rudchik, ..., **H.M. Maridi**, ..., “ $^6\text{Li} + ^{15}\text{N}$ interaction at $E_{\text{c.m.}} = 23.1$ MeV; validation of the $\alpha + d$ cluster model of ^6Li ”, [Phys. Rev. C **103**, 044614 \(2021\)](#).
- 9- **H.M. Maridi**, “Energy dependence and surface contribution of the nucleon-nucleus optical potential”, [Bull. Russ. Acad. Sci. Phys. **84**, 473 \(2020\)](#).
- 10- **H.M. Maridi**, “Energy dependence and surface contribution of the optical potential for nucleon-nucleus scattering at energies up to 1 GeV”, [Phys. Rev. C **100**, 014613 \(2019\)](#).
- 11- **H.M. Maridi**, “Proton scattering of helium isotopes using an energy-dependent folded potential”, [AIP Conf. Proc. **1976**, 020004 \(2018\)](#).
- 12- **H.M. Maridi**, M.Y.H. Farag, and E.H. Esmael, “Energy-dependent microscopic optical potential for $p + ^9\text{Be}$ elastic scattering”, [AIP Conf. Proc. **1742**, 030011 \(2016\)](#).
- 13- **H.M. Maridi**, M.Y.H. Farag, and E.H. Esmael, “Analysis of proton scattering of stable and exotic light nuclei using an energy-dependent microscopic optical potential”, [Eur. Phys. J. WoC **107**, 08007 \(2016\)](#).
- 14- M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Analysis of proton- $^{9,10,11,12}\text{Be}$ scattering using an energy-, density-, and isospin-dependent microscopic optical potential”, [Phys. Rev. C **90**, 034615 \(2014\)](#).
- 15- M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Energy-dependent microscopic optical potential for scattering of nucleons on light nuclei”, [Eur. Phys. J. A **50**, 106 \(2014\)](#).
- 16- M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Microscopic study on proton elastic scattering of helium and lithium isotopes at energy range up to 160 MeV/nucleon”, [Eur. Phys. J. WoC **66**, 03025 \(2014\)](#).
- 17- M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Elastic interaction of protons with stable and exotic light nuclei”, [Phys. Rev. C **88**, 064602 \(2013\)](#).
- 18- M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Elastic Microscopic study on proton elastic scattering of light exotic nuclei at energies below than 100 MeV/nucleon”, [Eur. Phys. J. A **48**, 154 \(2012\)](#).
- 19- M.Y.M. Hassan, M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Elastic scattering and breakup effect analysis of $^{11}\text{Be} + ^{12}\text{C}$ at 38.4 MeV/nucleon”, [Phys. Rev. C **79**, 064608 \(2009\)](#).
- 20- M.Y.M. Hassan, M.Y.H. Farag, E.H. Esmael, and **H.M. Maridi**, “Microscopic model analysis of $^{11}\text{Li} + p$ elastic scattering at 62, 68.4, and 75 MeV/nucleon”, [Phys. Rev. C **79**, 014612 \(2009\)](#).

Reports

- 1- **H.M. Maridi**, K. Rusek, and N. Keeley, “Comparison of Coulomb breakup effects on the elastic scattering of ^6He and ^8He ”, [HIL Annual Report 2021, 80 \(2022\)](#).
- 2- A. T. Rudchik, ..., **H.M. Maridi**, ..., “Coupling of $^6\text{Li} + ^{10}\text{B}$ elastic scattering with the inelastic channels”, [HIL Annual Report 2021, 60 \(2022\)](#).
- 3- **H.M. Maridi**, K. Rusek, and N. Keeley, “Coulomb dipole polarization potential for $^6\text{He} + ^{208}\text{Pb}$ ”, [HIL Annual Report 2020, 49 \(2021\)](#).

Books

- 1- **H. M. Maridi**, “Scattering of halo nuclei”, LAP Lambert Academic Publishing (2013).
[ISBN:9783659421112](#)

Theses

- 1- Phd Dissertation: “[Calculations of the cross sections for stable and exotic light nuclei](#)”, 2014.
- 2- Master Theses: “[Scattering of halo nuclei](#)”, 2009.