

— 第852回九大原子核セミナー —

講師：叶 涛 氏 (九州大学)

演題：Analysis of deuteron elastic scattering from $6,7\text{Li}$ using the continuum discretized coupled channels method.

日時：1月16日(金) 16時00分～

場所：理学部 物理大学院講義室 (理学部2号館2階2263室)

概要

The continuum discretized coupled channels (CDCC) approach is applied to analysis of deuteron elastic scattering from $6,7\text{Li}$ in the energy range from 10 to 50 MeV. Phenomenological neutron and proton optical potentials that are essentially important in the CDCC calculation are determined from the present optical model analysis of differential cross sections of nucleon elastic scattering, neutron total cross sections, and reaction cross sections of $6,7\text{Li}$ for energies from 5 to 50 MeV. The CDCC result provides satisfactory agreement with experimental data, particularly at forward angles. The obtained nucleon optical model potentials are found to describe reasonably well both nucleon and deuteron elastic scattering from $6,7\text{Li}$ for energies up to 50 MeV.

連絡先：九州大学理学部物理学教室原子核理論研究室

TEL：092-642-2111 (内線 8357)

角 剛典 (sumi@phys.kyushu-u.ac.jp)

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