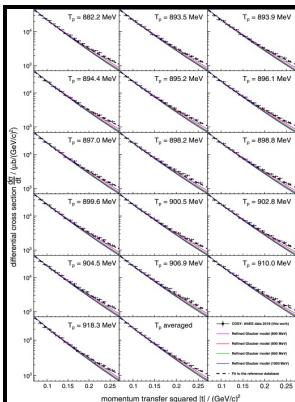


# Investigation of the scattering of intermediate energy nucleons.

-- TUNL



Description: -

-Investigation of the scattering of intermediate energy nucleons.

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Notes: Thesis (Ph. D.)--The Queen's University of Belfast, 1963.  
This edition was published in 1963



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Tags: #On #the #Investigation #of #Nucleon

## THE ELECTRON SCATTERING METHOD AND ITS APPLICATION TO THE STRUCTURE OF NUCLEI AND NUCLEONS (Journal Article)

For light target nuclei, both the quasifree p,2p and e,e<sup>+</sup>p can probe average densities of the same order as nuclear saturation density  $\{\rho_0\}$   $\{\rho_0\}$ . Elastic Scattering and Neutron Moderators As can be seen, a high elastic scattering cross-section is important, but does not describe comprehensively capabilities of.

### On the Investigation of Nucleon

Experimental measurement of the correlation demonstrated the multipolarity of gamma transitions.

### ShieldSquare

The Glauber theory of multiple scattering is used as the basis for the computations. The research on nucleon-nucleon interactions inside nuclei is conducted at the tandem laboratory and at HIGS.

### Nucleon knockout by intermediate energy electrons (Journal Article)

The conclusion is that very small effects are to be expected for elastic and sum total inelastic scattering of commonly available projectiles. The OLA and MOL calculations were performed using the NN parameters from Ref.

Phys. Rev. C 79, 061601(R) (2009)

Students Ron Malone and Forrest Friesen are installing the system on the beam axis in the upstream target room at HIGS. The target nucleus gains the exact amount of kinetic energy that the neutron loses.

## **On the Investigation of Nucleon**

This report investigates the following topics to understand this knockout process: Open-Photon-Exchange Approximation; Nucleon Form Factors; Proton Knockout Experiments on Few-Body Systems; Distorted Wave Analysis of  $e,e\{\prime\}N$  Reactions; Spectral Functions from  $e,e\{\prime\}p$  on Complex Nuclei; and Studies of the Reaction Mechanism for Nucleon Knockout.

### **Experimental Studies of Few**

The roles of the quarks and gluons in shaping the structure of nucleons is explored via medium-energy nuclear-physics experiments carried out by TUNL research groups at JLab. In the first part, the effects of the chargedneutral meson mass difference, which is assumed to be of electromagnetic origin, are calculated. The PRad collaboration at Jefferson Lab developed and performed a new  $e\text{-}p$  elastic scattering measurement in experimental Hall B.

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