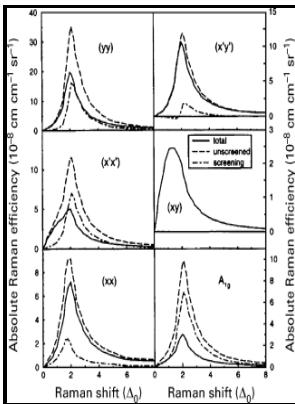


# Electron scattering through thin foils.

-- Phys. Rev. 92, 978 (1953)



Description: -

-Electron scattering through thin foils.

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Tags: #Operation #and #characterization #of #a #windowless #gas #jet #target #in #high

## Low

Inside a containing target cell of several cm length, a sizable amount of hydrogen is provided at cryogenic temperatures.

## Measuring the Thickness of Aluminium Alloy Thin Foils Using Electron Energy Loss Spectroscopy

The stability of the gas jet is considered in Section 6 and the target is compared to other hydrogen targets at electron accelerators in Section 7. This paper is organized as follows: Section 2 provides an overview of the experimental setup and the gas jet target.

**Phys. Rev. 121, 461 (1961)**

However the electronic structure of semiconductors is more complicated than that of metals and therefore a re-evaluation of the quantum mechanical reflections will be required for these materials. The two high-resolution magnetic spectrometers will be used for the detection of scattered electrons and produced particles. Detailed studies have been carried out at the existing A1 multi-spectrometer facility at the electron accelerator MAMI.

## Low

Comparison with the experiments with bimetallic foils allows estimating the contribution of each layer to refraction and reflection of the injected beam. It is possible to interpret these data in terms of a variable charge density within the nucleus. In general, the calculated distributions are narrower than the measured ones.

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As a consequence, the presence of an electron beam halo can lead to significant background in scattering experiments, even if the flux of electrons in the halo is Stability of the luminosity A sub-percent measurement of the luminosity L, proportional to beam current and areal thickness of the gas jet, is crucial for high-precision experiments. Relative angular distributions are measured for Be, Ta, Au, and Pb.

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