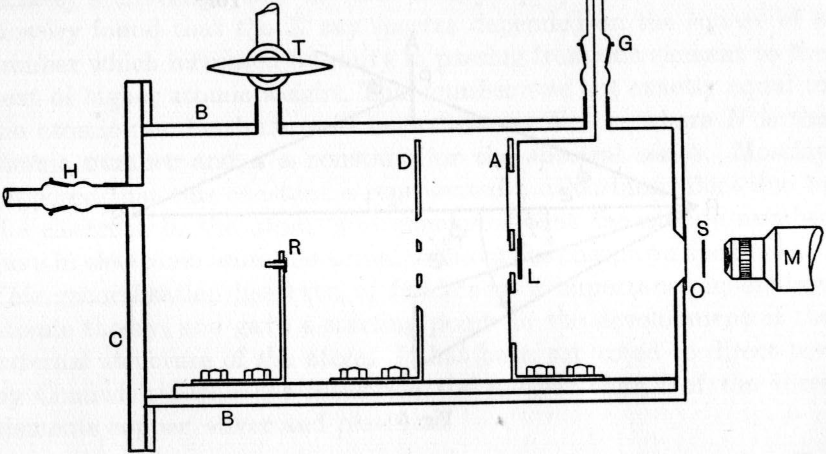
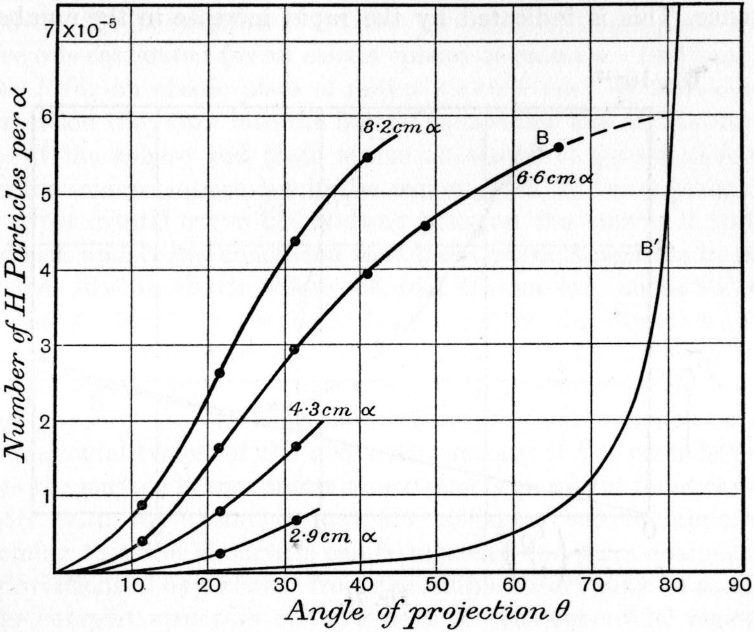
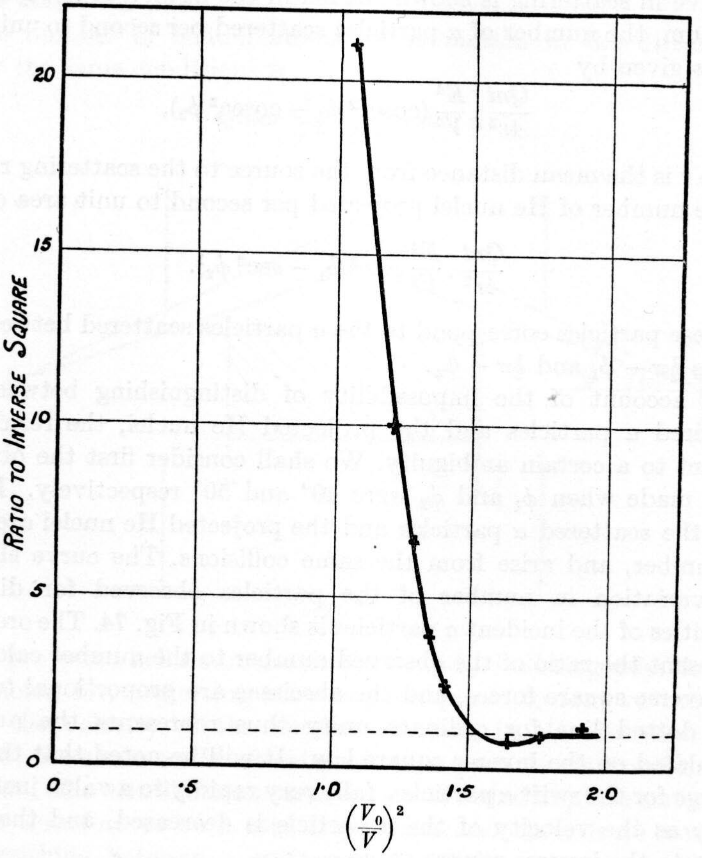


Fig. 51.



7 ×10⁻⁵
6
5
4
3
2
1
10
20
30
40
50
60
70
80
90
Number of H Particles per α
Angle of projection θ
8·2 cm α
6·6 cm α
4·3 cm α
2·9 cm α
B
B′



Ratio to Inverse Square
20
15
10
5
0
0
·5
1·0
1·5
2·0
$\left(\frac{V_0}{V}\right)^2$

Fig. 74.

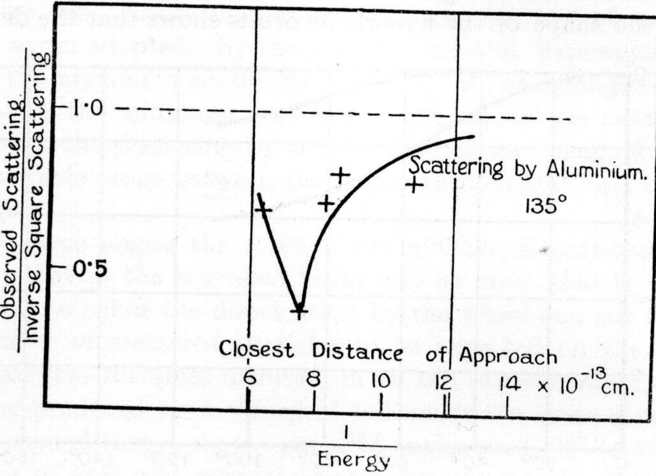

Observed Scattering / Inverse Square Scattering
1·0
0·5
Scattering by Aluminium.
135°
Closest Distance of Approach
6
8
10
12
14 x 10^-13 cm.
1 / Energy

Fig. 76.

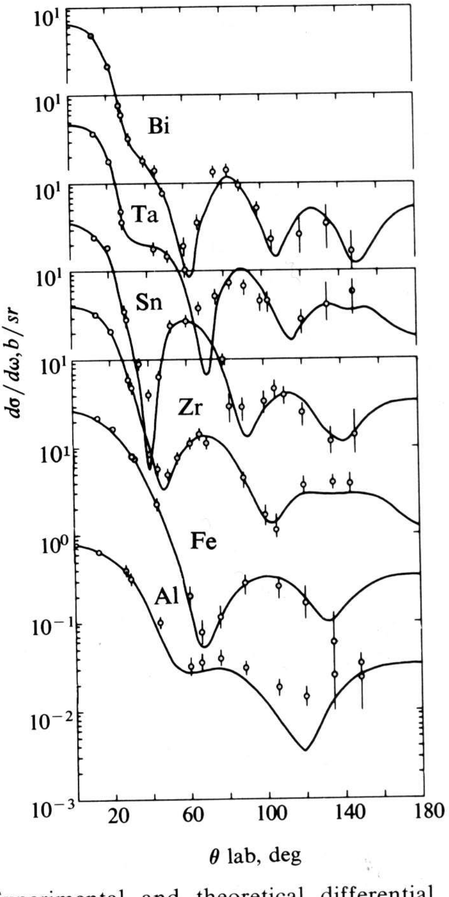


Figure 11-16 Experimental and theoretical differential elastic scattering cross sections for 7-MeV neutrons. The qualitative behavior is that of a diffraction curve from a sphere of radius $R = 1.4\ A^{1/3}$ F, but to obtain the detailed fit the sphere has been assumed not to be completely opaque and to have a fuzzy edge. [From S. Fernbach, *Rev. Mod. Phys.*, **30**, 414 (1958).]

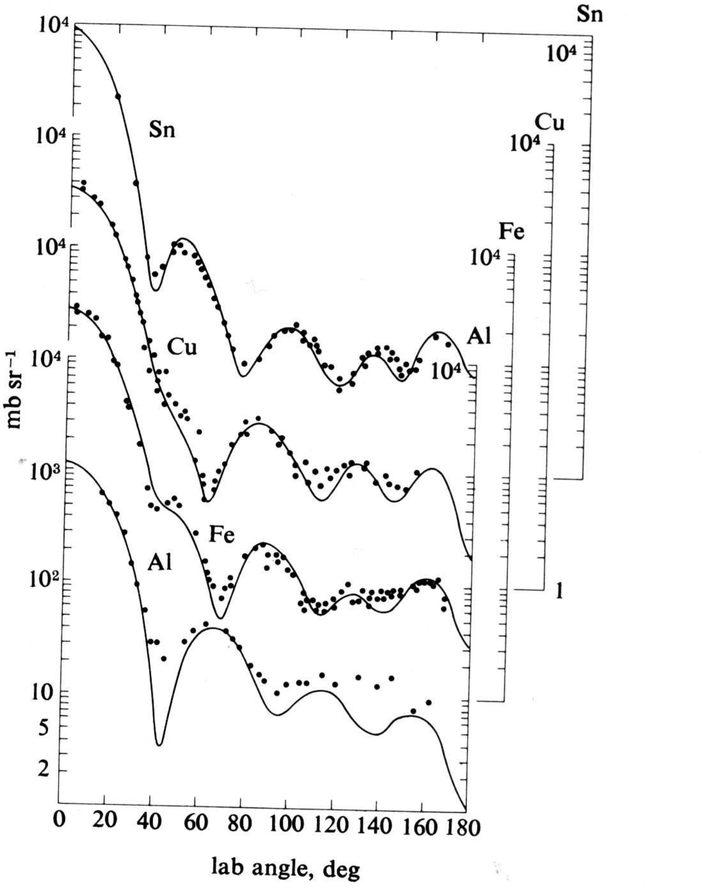


Figure 6-7 Experimental and theoretical differential cross sections for 14-MeV neutrons scattered from Sn, Cu, Fe, and Al. The experimental data presented are not completely corrected for multiple scattering, nor have angular and energy resolutions been taken into account. [S. Fernbach, *Rev. Mod. Phys.*, **30**, 414 (1958).]