

Integral measurements of plural and multiple scattering of
electrons with energies between 10 and 100 keV for
 $13 \leq Z \leq 79$: II. Thick targets

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SUPPLEMENTAL MATERIAL
EXPERIMENTAL RESULTS

The experimental data are given, with their uncertainty, in the following tables. The corresponding thicknesses, as well as the geometrical parameters of the cup and the ring, can be found in the paper. The measurements for the thick Al, Cu, Sn, and Au targets are reported in Tables 1, 2, and 3, and 4, respectively.

Table 1: Experimental values for the charge fraction recorded in the Faraday cup and aluminium ring for the thick Al target.

Al		
Energy (keV)	Faraday Cup	Ring
11.12(5)	0.00016(8)	0.00082(8)
12.98(5)	0.00031(13)	0.00049(18)
14.81(4)	0.00031(20)	0.00039(13)
16.82(5)	0.00017(17)	0.00052(9)
18.77(5)	0.00013(9)	0.00052(18)
20.58(5)	0.00012(14)	0.00051(10)
25.16(7)	0.00136(19)	0.00187(23)
28.10(8)	0.0085(8)	0.0161(10)
32.10(8)	0.0209(24)	0.0420(28)
36.10(8)	0.033(4)	0.068(5)
40.0(5)	0.043(6)	0.089(7)
45.4(5)	0.054(7)	0.112(8)
50.2(5)	0.063(9)	0.131(10)
60.2(5)	0.085(12)	0.166(13)
70.2(5)	0.111(15)	0.198(17)
80.2(5)	0.141(18)	0.228(20)
90.1(5)	0.174(22)	0.251(24)
99.8(5)	0.208(26)	0.269(28)

Table 2: Experimental values for the charge fraction recorded in the Faraday cup and aluminium ring for the thick Cu target.

Cu		
Energy (keV)	Faraday Cup	Ring
11.12(5)	0.00042(8)	0.00033(8)
12.98(5)	0.00064(15)	0.00018(12)
14.81(4)	0.00063(19)	0.00029(19)
16.82(5)	0.00037(22)	0.00004(16)
18.77(5)	0.00033(8)	0.00006(12)
20.58(5)	0.00012(17)	0.00004(8)
25.16(7)	0.00016(17)	0.00006(8)
28.10(8)	0.00045(7)	0.00080(8)
32.10(8)	0.00255(28)	0.0052(3)
36.10(8)	0.0073(8)	0.0154(9)
40.0(5)	0.0133(16)	0.0288(19)
45.4(5)	0.0221(3)	0.0485(3)
50.2(5)	0.029(4)	0.065(5)
60.2(5)	0.041(6)	0.092(7)
70.2(5)	0.050(7)	0.110(8)
80.2(5)	0.059(8)	0.127(10)
90.1(5)	0.068(10)	0.143(11)
99.8(5)	0.080(11)	0.159(13)

Table 3: Experimental values for the charge fraction recorded in the Faraday cup and aluminium ring for the thick Sn target.

Sn		
Energy (keV)	Faraday Cup	Ring
10.18(4)	0.00053(9)	0.00076(17)
12.15(4)	0.00029(7)	0.00053(14)
14.07(4)	0.00025(11)	0.00067(27)
16.91(11)	0.00015(4)	0.00079(11)
18.85(5)	0.00011(14)	0.00086(18)
20.70(4)	0.00002(15)	0.00092(15)
24.70(5)	0.00002(18)	0.00098(24)
28.76(4)	0.00014(20)	0.00133(17)
32.20(5)	0.00066(15)	0.00273(16)
36.10(4)	0.00225(25)	0.00637(30)
40.1(5)	0.0053(6)	0.0132(7)
45.2(5)	0.0104(13)	0.0246(15)
50.1(5)	0.0160(21)	0.0374(25)
59.9(5)	0.026(4)	0.061(4)
70.1(5)	0.034(5)	0.079(6)
80.2(5)	0.040(6)	0.092(7)
99.9(5)	0.051(7)	0.115(9)

Table 4: Experimental values for the charge fraction recorded in the Faraday cup and aluminium ring for the thick Au target.

Au		
Energy (keV)	Faraday Cup	Ring
10.41(4)	0.00125(26)	0.00055(34)
12.59(6)	0.00106(16)	0.00044(23)
14.75(4)	0.00045(18)	0.00016(21)
16.44(5)	0.00037(19)	0.00017(11)
18.35(3)	0.00030(14)	0.00024(19)
21.22(5)	0.00000(17)	0.00031(15)
25.04(4)	0.00007(20)	0.00015(19)
28.86(4)	0.00016(9)	0.00004(17)
33.00(4)	0.00012(9)	0.00013(17)
36.68(7)	0.00020(11)	0.00019(12)
41.23(16)	0.00004(17)	0.00040(21)
45.0(5)	0.00006(13)	0.00073(19)
50.2(5)	0.00044(11)	0.00174(13)
60.2(5)	0.0031(4)	0.0076(5)
70.1(5)	0.0081(10)	0.0190(12)
80.2(5)	0.0143(19)	0.0329(22)
90.1(5)	0.0197(28)	0.0454(32)
100.1(5)	0.0241(35)	0.056(4)