

Landolt-Börnstein
Group I: Elementary Particles, Nuclei and Atoms

Volume 7

Elastic and Charge Exchange Scattering of Elementary Particles

Introductory material

0	Notation, constants and general relations	1
1	Nucleon-nucleon scattering	5
1.1	Total cross sections	5
1.2	Differential cross sections and polarizations of elastic pp scattering above 1 GeV	27
1.3	Differential cross sections and polarizations of np elastic and charge exchange scattering	82
1.4	Differential cross sections and polarization of elastic (anti-p)p scattering	109
2	K-nucleon elastic and charge exchange scattering	133
2.0	Introduction	133
2.1	Tables of total cross sections of (K ⁺ -)p and (K ⁺ -)d	138
2.2	Tables of total elastic cross sections of (K ⁺)p and (K ⁻)p, (K ⁻)n	146
2.3	Tables of total charge exchange cross sections of (K ⁺)d and (K ⁻)p	148
2.4	Tables of differential elastic cross sections of (K ⁺)p and (K ⁻)p, (K ⁻)n	151
2.5	Tables of differential charge exchange cross sections of (K ⁺)d and (K ⁻)p	241
2.6	Tables of polarizations in (K ⁺)p and (K ⁻)p elastic scattering	268
2.7	References for 2	291
3	(pi ⁺ -)-proton elastic and charge exchange scattering	295
3.0	Introduction	295
3.1	Tables of total, and elastic and charge exchange cross sections	310
3.2	Tables of differential cross sections	332
3.3	Tables of polarizations	490
3.4	Literature for 3	530

Elastic and Charge Exchange Scattering of Elementary
Particles / Elastische und Ladungsaustausch-Streuung
von Elementarteilchen

Carlson, P.J.; Diddens, A.N.; Giacomelli, G.; Mönnig, F.;
Schopper, H. - Schopper, H. (Ed.)

1973, 540 p., Hardcover

ISBN: 978-3-540-06248-6