Landolt-Börnstein

Group I: Elementary Particles, Nuclei and Atoms

Volume 9

Elastic and Charge Exchange Scattering of Elementary Particles

Subvolume A

Nucleon Nucleon and Kaon Nucleon Scattering

	Introductory material	
0	Notations, constants, and general relations	1
1	Nucleon nucleon scattering	7
1.1	Total cross sections	7
1.1.1	Total and integrated cross sections for pp, pd and dd scattering	7
1.1.2	Total and integrated cross sections for neutrons on protons and nuclei	42
1.1.3	Total cross sections of antiprotons on protons and deuterons	85
1.2	Differential cross sections and polarization parameters for elastic pp, pd and dd scattering	88
1.2.1	Differential cross sections for elastic pp scattering at low momenta	88
1.2.2	Differential cross sections for elastic pp scattering at high momenta	216
1.2.3	Differential cross sections for elastic pd and dd scattering	287
1.2.4	Polarization parameters for elastic pp scattering	328
1.3	Differential cross sections and polarization parameters for np elastic and charge exchange scattering	420
1.3.0	Survey	420
1.3.1	Tables of differential elastic np cross sections (including charge exchange scattering) at low energies	425
1.3.2	Differential elastic np cross sections at high energies	601
1.3.3	Differential np charge exchange cross sections at high energies	624
1.3.4	Polarization parameters of elastic np scattering	644
1.4	Differential cross sections and polarization of elastic (anti-p)p scattering	675
1.4.0	Survey	675
1.4.1	Introduction	676
1.4.2	General features of the data	676
1.4.3	Table of differential cross sections for elastic (anti-p)p scattering	678
1.4.4	Table of polarization parameters for elastic (anti-p)p scattering	687
1.4.5	References for 1.4	687
2	Kaon nucleon elastic and charge exchange scattering	689
2.0	Survey of data	689
2.1	Introduction	689
2.2	Tables of total cross sections of (K+-)p and (K+-)d scattering	698
2.3	Tables of differential cross sections for elastic (K+-)p scattering	700
2.4	Tables of differential cross sections for charge exchange scattering	729
2.5	Tables of polarizations in elastic (K+-)p scattering	733
2.6	References for 2	734