

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

Volume 6
Properties and Production Spectra of Elementary Particles

	Introductory material	
1	Particle properties, coupling constants and form factors (H. PILKUHN)	1
1.1	Introduction: The basic interactions	1
1.2	General formulas for decays and resonances	9
1.3	General formulas for two-particle reactions	14
1.4	Tables of particle properties and decay coupling constants	21
1.5	Effective range parameters and coupling constants of stable vertices	38
1.6	Electromagnetic form factors and SU(3)-comparison	44
2	Notation, constants and general relations (P.J. CARLSON, A.N. DIDDENS, G. GIACOMELLI, K. SCHLÜPMANN, H. SCHOPPER)	49
2.1	Notation and relations	49
2.2	Units and constants	52
2.3	Abbreviations for experimental techniques	52
3	Particle production in proton-proton interactions (A.N. DIDDENS, K. SCHLÜPMANN)	53
3.1	Introduction	53
3.2	Discussion of the data	56
3.3	Systematics of particle production	64
3.4	Theory and empirical formulae	74
3.5	Survey on experiments	78
3.6	Data tables: Cross section for the production of charged particles in pp collisions	79
3.6.1	pp -> (pi-)X	79
3.6.2	pp -> (pi+)X	103
3.6.3	pp -> (K-)X	117
3.6.4	pp -> (K+)X	122
3.6.5	pp -> (anti-p)X	138
3.6.6	pp -> pX	141
3.7	References for 3	161