



# CONTENTS

Preface . . . . .	iii
Editor's Note . . . . .	iv
G. F. CHEW	
Nuclear Democracy, Regge Poles and the Analytic $S$ -Matrix . . . . .	1
G. F. CHEW	
Bootstrapping with the Regge Boundary Condition . . . . .	9
L. VAN HOVE	
The $S$ -Matrix at Very High Energy . . . . .	17
Toichiro KINOSHITA	
High Energy Behavior of the Forward Scattering Amplitude . . . . .	27
R. E. MARSHAK	
Present Status of Weak Interactions . . . . .	35
R. E. MARSHAK	
Parity- $SU_3$ Mixing for Mesons . . . . .	67
Y. NE'EMAN	
Algebra and Symmetries . . . . .	68
1) Unitary Spin and its Dynamical Extensions . . . . .	72
2) Generalized Algebraic Methods in Particle Physics . . . . .	78
Y. NAMBU	
Electromagnetic Properties of the Baryon (Hyperfine Structure of Hydrogen) . . . . .	87
S. A. BLUDMAN	
Hidden Symmetries and the Question of Massless Particles . . . . .	94
S. L. GLASHOW	
Mass Formulae in $SU(3)$ and $SU(6)$ . . . . .	112