

CONTENTS

~						
~	0		P 8	0	m	Ł
J	C	3.	31	v	11	 L
_	_	_				-

Introduction	3
Opening Address	5
πp Charge Exchange Scattering and a "Coherent Droplet"	
Model of High Energy Exchange ProcessesC. N. Yang	7
Discussion	17
Van Hove's Comment on Yang's Talk and Discussion	26
Emission of Light Fragments from Heavy Nuclei in High	
Energy Nuclear Reactions. IIT. Miyazima	42
Discussion	46
Session II	
Field-Theoretic Models of Elementary ParticlesR. E. Marshak	49
Discussion	77
The Intermediate Boson Theory of the Weak Interactions	
S. Nakamura	84
Discussion	107
Remarks on a New Concept of Elementary Particles and	
the Model of the Composite ModelS. Sakata	109
Discussion	119
Integrally Charged Triplets and Weak InteractionsL. Van Hove	124
Discussion	129
Triplets, Static $SU(6)$, and Spontaneously Broken Chiral	
SU(3) SymmetryY. Nambu	131
Discussion	135
Session III	

Space-Time Description of Elementary Particles H. Yukawa	139
Discussion	152
Theory of Reciprocity, Broken $SU(3)$ Symmetry, and	
Strong InteractionsH. S. Green	159
Discussion	167
On the Meson Theory of Nuclear Forces	170
Discussion	180

On the Foundations of the Theory of Nuclear Reactions	
L. Rosenfeld	182
Discussion	205
Comments on Static Models, Mainly Quasi-Rotational	
SpectraG. Wentzel	206
Discussion	208

Session IV

The Energy and Momentum of Particle-Like Systems from	
the Point of View of General RelativityC. Møller	213
Discussion	224
Symmetry of Particles and Space-TimeY. Tanikawa	233
Discussion	241
Generalized Iso-Spin Space, Generalized Gauge-Transfor-	
mation and Elementary ParticlesR. Utiyama	243
Discussion	249
Space, Time and the Quantum Theory Understood in Terms	
of Discrete Structural ProcessesD. Bohm	252
Discussion	285
New Methods of Quantization and Regularization Applied	
to Ziro Maki's Equation for PionsF. Bopp	288
Discussion	294
Internal Parameters of a Particle and Non Locality	
G. Wataghin	296
Discussion	299

r

Session V

On the Geometric Nature of the Electric Charge and the	
IsospinM. Schönb	erg 305
Discussion	309
On the Curved Momentum SpaceI. F. Tar	nm 314
Discussion	321
General Discussion	327
Concluding Remarks	338
Editorial Note	341