

CONTENTS

New Approach to Cosmological Theory.....	1
P.A.M. Dirac	
Spin Forces in Large- $P_{\perp}^2$ p-p Elastic Scattering.....	17
A.D. Krisch	
Advances in the Study of Spin Effects in Nucleon-Nucleon Scattering at Small and Intermediate Momentum Transfers....	57
Homer A. Neal	
What Can One Learn from Very Accurate Measurements of the Lepton Magnetic Moments?.....	127
Toichiro Kinoshita	
Lepton Spin Motion in Weak Magnetic Mirror Traps.....	145
G.W. Ford	
Electron Magnetic Moment from Geonium Spectra.....	159
Robert S. Van Dyck, Jr., Paul B. Schwinberg, and Hans Dehmelt	
Muon Anomalous Magnetic Moment - The Last Word.....	183
Robert W. Williams	
Proposed Measurements of the Anomalous Magnetic Moment of the Electron and Positron.....	199
D. Newman, A. Rich, and E. Sweetman	
Introductory Remarks - Quark Flavors.....	221
Sydney Meshkov	
Neutrino-Induced Multimueon Events from the CDHS Experiment.....	227
K. Kleinknecht	
New (Quark) Flavors.....	263
C. Quigg	

New Absolutely Stable Hadrons.....	285
Robert N. Cahn	
Quantum Flavordynamics: A Status Report.....	293
M.A.B. Beg	
Status of Muon-Number Conservation and Comments on Parity Violation in Atoms.....	313
William J. Marciano	
Weak Interaction Models with Spontaneously Broken Left-Right Symmetry.....	337
Rabindra H. Mohapatra	
The "New" U(1) Problem.....	403
Helen R. Quinn	
Supersymmetric Theories of Particles.....	413
P. Fayet	
Spinning String Theory from a Modern Perspective.....	431
John H. Schwarz	
Covariant Quantization of Supergravity.....	447
P. van Nieuwenhuizen	
The Use and Misuse of the Parton Model.....	475
Howard Georgi	
Experimental Tests of QCD???.....	495
A.L. Sessoms	
Application of Quantum Chromodynamics to High Transverse Momentum Hadron Production.....	517
Geoffrey C. Fox	
Gauge Fixing Degeneracies, Confinement and Other Problems for Non-Abelian Gauge Theories.....	559
Heinz Pagels	
Gauge Specification in a Non-Abelian Gauge Theory.....	589
R. Jackiw	
Quantized Electric Flux Tubes in QCD.....	611
Itzhak Bars	
Remarks on the Topology of Gauge Fields.....	633
Y. Nambu	

Dynamical Effects of Instantons and Merons..... 641
 Roger Dashen

Participants..... 653

Program..... 657

Index..... 661