

CONTENTS

Shoichi Sakata Centennial Symposium

Preface	Y. Aoki, T. Maskawa, M. Tanabashi and K. Yamawaki	i
Opening Address	Michinari Hamaguchi	v
Shoichi Sakata: His Life and Physics		
— <i>Collections of Materials in Sakata Memorial Archival Library</i> —		
.....	Masaharu Tanabashi	1
Dipole Moment of Solitons	Makoto Kobayashi	15
Seeking Clues for the Next Sakata	Matthew J. Strassler	21
Lattice Methods in Gauge Theories beyond the Standard Model	Zoltan Fodor, Kieran Holland, Julius Kuti, Daniel Negradi, Christopher Schroeder and Chik Him Wong	31
The Origin of Matter — <i>Leptogenesis</i> —	Tsutomu T. Yanagida	46
Insights from Three Flavors to Three Families Based on Compositeness and Symmetry	Yue-Liang Wu	48
Testing a Model for the Puzzling Spin 0 Mesons	Joseph Schechter	64
Composite Avenue beyond the Standard Model — <i>Legacy of Sakata in the LHC Era</i> —	Koichi Yamawaki	76
Higgs-Like Scalars from Non-Perturbative Yang-Mills Dynamics	Henri Verschelde and Valentin Zakharov	92
Phase Diagram of the Lowest Landau Level in Bilayer Graphene	E. V. Gorbar, V. P. Gusynin, Junji Jia and V. A. Miransky	107
Kaons — A Micro-Physics Laboratory — <i>“Will You Still Need Me When I’m 64?” (The Beatles)</i> —	William A. Bardeen	128
Program		vii
List of Participants.....		ix
Author Index		xii