

理論物理学刊行会ならびに基礎物理学研究所の発展にとって多大の貢献のあつた小林稔教授還暦記念号として、同教授に関係の深い友人・門弟より寄せられた論文をもつて構成されている。小林教授が各時期に手がけられた分野—素粒子論・原子核論・物性論の各方面にわたつて、現在活躍している研究者による成果が豊富に収録されている。また Part I には小林教授の各時代の活躍についての紹介も含まれている。

'69年2月25日発行/販売 公費払 ¥1,700, 私費払 ¥1,100

(私費払の方は振替又は現金書留により代金を添えご注文願います。)

606 京都市左京区北白川 理論物理学刊行会  
 京都大学湯川記念館内 TEL (075) 771-8111 (内線 5171)  
 振替貯金口座 京都 3977 番

CONTENTS

Part I.

YUKAWA-H Preface  
 TOMONAGA-S Reminiscences  
 TAKAGI-S & YAMAMOTO-T Professor  
 Minoru Kobayasi in Kyoto Univer-  
 sity

Part II.

ISO-C & YOSHII-H Photon-vector-  
 meson analogy model and its app-  
 lication to  $\gamma+N \rightarrow \gamma+B$  and  $\gamma+N \rightarrow V+B$   
 processes  
 MACHIDA-S Conservation law or vio-  
 lation law?  
 KAWAGUCHI-M, OHTSUBO-H & SUMI-Y  
 Radiative pion capture in complex  
 nuclei  
 SHIOZAKI-T  $U(3) \times U(3)$  chiral symmetry  
 BANDŌ-H & KURIYAMA-A Deuteron

clustering in nuclear matter  
 HORI-S An approximation in the  
 quantum-mechanical treatment  
 of the nonrelativistic three-  
 body bound-state problem  
 FUJII-S A generalization of the  
 Goldhaber-Teller model and nu-  
 clear photo and electroexcita-  
 tions  
 YOSHIMITSU-K & MATSUBARA-T Re-  
 laxation process in ferroele-  
 ctrics near the Curie tempera-  
 ture  
 KOGA-T & TAKEMIYA-T A comment  
 on the collective excitation  
 in  $C^{12}(p,p')C^{12*}$  reaction  
 CHEON-IL-T Foldy transforma-  
 tion in the  $\pi$ -nucleus inter-

..... 切 ..... 取 ..... 線 .....

註 文 書

年 月 日

Supplement No. \_\_\_\_\_ 部

氏 名 \_\_\_\_\_

所 属 機 関 名 \_\_\_\_\_

送 本 先 \_\_\_\_\_

送 金 額 金 円 \_\_\_\_\_

- action
- HAYAKAWA-S Origin of light elements in the solar system
- KIKUGAWA-M, WATARI-W & YONEZAWA-M Effects of the form factors in the one-boson-exchange model of nucleon-nucleon scattering
- MARUMORI-T, YAMAMURA-M, MIYANISHI-Y & NISHIYAMA-S Toward a unified microscopic theory of vibrational and rotational motion in even nuclei
- NAMBU-Y Quantum electrodynamics in nonlinear gauge
- OTSUKI-Sh & OTSUKI-Se A classification of nucleon resonances through pattern recognition
- MAKI-K Anomalous scattering due to magnetic impurities in gapless superconductor
- TAKADA-K On the four-body correlations in light nuclei — reduction of the effective interaction due to the Pauli principle —
- KOTANI-M Fluctuation in quaternary structure of proteins and cooperative ligand binding. I — generalizations of Monod-Wyman-Changeux model of allosteric enzymes —
- TAMAGAKI-R Repulsive core of effective  $\alpha$ - $\alpha$  potential and the Pauli principle
- MUNAKATA-Y & AOTSUKA-T Two-dimensional Bethe-Salpeter equation for massive meson exchange
- MANNARI-I & KAGEYAMA-H A note on extended Watson integrals
- KATAYAMA-Y Nonlocal field theory in two dimensional space-time
- FUKUTOME-H Hartree-Fock equation in restricted Hilbert space
- FUJII-A, MORITA-M & OHTSUBO-H Muon capture and nuclear structure
- HIIDA-K, OHNUKI-Y & YAMAGUCHI-Y General theory of chiral transformations
- SASAKI-K, SUEKANE-S & TONOZUKA-I Alpha-particle type four-body correlation and alpha-particle reduced width in heavy nuclei
- HAYASHI-T, KOIDE-Y, OGAWA-S, OKONOJI-H & YONEZAWA-M Some considerations on the weak interaction
- NAGAOKA-Y & Usui-T Symmetry of the ground-state wave function of many particle system
- HORIE-H & ODA-T Fractional parentage coefficients for the nuclear jj-coupling states
- NAKAMURA-S, MATSUMOTO-H, NAKAZAWA-N & UGAI-H Magnetic moments of leptons and the leptonic boson
- KATAOKA-Y & YAMAMOTO-T Theory of phase transitions in solid methanes III. Mixtures of nuclear spin species A and T
- MATSUDA-H & MIYATA-T Persistence and amalgamation types in optical spectra of mixed crystals
- IKEDA-K, TAKIGAWA-N & HORIUCHI-H The systematic structure-change into the molecule-like structures in the self-conjugate  $4N$  nuclei
- AKAISHI-Y & NAGATA-S Binding energy of nuclear matter by the hole line expansion method
- ARIMA-A Note on the rotational states in large single j-shell