

# 武谷三男博士の業績リスト (第3版)

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## 1 はじめに

すでにこの「素粒子論研究」に第1版 [1], 第2版 [2] を発表したが, 武谷の年譜を作成しようとするれば, 論文の発行の年月までリストに記述をしておいた方がよいことがわかった. また1つだけ新しい論文を見つけた. それでここに3度目の改訂をする. この第3版の収録データは (1) 著者名, (2) 論文名, (3) 雑誌名または書名, (4) 巻号または号, 発行年月, 頁, である. 収録データについて注記をしておきたい. 掲載順は発行順を原則としたが, 学術雑誌は発行年または発行年月しか分からないものはその発行年または発行年月の末尾に加えた. また, たとえば Prog. Theor. Phys. (P. T. P. と略す) に掲載された論文がその P. T. P. Supplement (Suppl. と略す) に再掲されているのも重複して載せている. また Suppl. No. 50 に日本語からの英訳として出ているもので, 狭い意味では物理の研究論文には入らないかもしれないものや Suppl. No. 105 のインタビュー等も載せている. なお, 武谷の著作については [3], [4], [5], [6] および [7] を参照されたい.

(2010.6.22)

## 2 List of the Scientific Papers of Mituo Taketani

1. M. Taketani  
A Collection of Land Mollusca from Taiwan (Formosa)  
Transactions of the National History Society of Formosa, Vol. 26 No. 154 (1936) 271-278.
2. H. Yukawa, S. Sakata and M. Taketani  
On the Interaction of Elementary Particles. III  
Proc. Phys.-Math. Soc. Japan, 3rd Series Vol. 20 No. 3 (Mar. 1938) 319-340.
3. H. Yukawa, S. Sakata, M. Kobayasi and M. Taketani  
On the Interaction of Elementary Particles. IV  
Proc. Phys.-Math. Soc. Japan, 3rd Series Vol. 20 No. 8 (Aug. 1938) 720-745.
4. S. Sakata and M. Taketani  
Versuch einer Theorie des  $\beta$ -Zerfalls  
Proc. Phys.-Math. Soc. Japan, 3rd Series Vol. 20 No. 10 (Oct. 1938) 962-963.
5. M. Taketani and S. Sakata  
On the Wave Equation of Meson  
Proc. Phys.-Math. Soc. Japan, 3rd Series Vol. 22 No. 8 (Aug. 1940) 757-770.
6. S. Sakata and M. Taketani  
Note on Casimir's Method of the Spin Summation in the Case of the Meson  
Sci. Pap. I. P. C. R., Vol. 38 No. 984 (Sep. 1940) 1-11.

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7. M. Taketani and S. Sakata  
On the Wave Equation of Meson, Errata  
Proc. Phys.-Math. Soc. Japan, 3rd Series Vol. 23 No. 1 (Jan. 1941) 160.
8. M. Taketani  
Conflict between Matter and Field  
- *An Analysis of the Difficulties of the Theory of Elementary Particles* -  
Prog. Theor. Phys., Vol. 2 No. 4 (Nov.-Dec. 1947) 187-197.
9. M. Taketani  
On the Neutral Meson  
Prog. Theor. Phys., Vol. 3 No. 4 (Oct.-Dec. 1948) 349-355.
10. M. Taketani, S. Nakamura, K. Ono and M. Sasaki  
On the Two-Meson Theory  
Phys. Rev., 2nd Series Vol. 76 No. 1 (Jul. 1949) 60-63.
11. M. Taketani, S. Nakamura and M. Sasaki  
On the  $\mu$ -Meson Capture  
Phys. Rev., 2nd Series Vol. 76 No. 6 (Sep. 1949) 852.
12. M. Taketani, M. Sasaki and S. Nakamura  
On the mu-Meson Capture  
Prog. Theor. Phys., Vol. 4 No. 4 (Oct.-Dec. 1949) 552-556.
13. M. Taketani, S. Machida and T. Tamura  
On the Electromagnetic Properties of Nucleons  
Prog. Theor. Phys., Vol. 5 No. 1 (Jan.- Feb. 1950) 150-152.
14. M. Taketani, S. Nakamura and M. Sasaki  
On the Method of the Theory of Elementary Particles  
Prog. Theor. Phys., Vol. 5 No. 4 (Jul.-Aug. 1950) 730-734.
15. S. Nakamura, H. Fukuda, K. Ono, M. Sasaki and M. Taketani  
Analysis on the Two Meson Theory  
Prog. Theor. Phys., Vol. 5 No. 4 (Jul.-Aug. 1950) 740-747.
16. M. Taketani, S. Nakamura, M. Umezawa, K. Ono and Y. Yamaguchi  
 $ft$ -Values of  $\beta$ -Decay and the Shell Models  
Phys. Rev., Vol. 82 No. 3 (Mar. 1951) 441-442.
17. M. Taketani, S. Nakamura, K. Ono and M. Umezawa  
On the Matrix Elements of the Beta Decay  
Prog. Theor. Phys., Vol. 6 No. 3 (May-Jun. 1951) 286-294.
18. M. Umezawa, S. Nakamura, Y. Yamaguchi and M. Taketani  
Nuclear Shell Model and the  $\beta$ -Decay Schemes, I  
Prog. Theor. Phys., Vol. 6 No. 3 (May-Jun. 1951) 408-425.

19. M. Taketani and S. Machida  
On the Production of Negative Protons  
Prog. Theor. Phys., Vol. 6 No. 4 (Jul.-Aug. 1951) 559-571.
20. M. Taketani, S. Nakamura and M. Sasaki  
On the Method of the Theory of Nuclear Forces  
Prog. Theor. Phys., Vol. 6 No. 4 (Jul.-Aug. 1951) 581-586.
21. M. Taketani, S. Onuma and S. Koide  
On the Nuclear Forces and the Ground State of Deuteron  
Prog. Theor. Phys., Vol. 6 No. 4 (Jul.-Aug. 1951) 635-637.
22. M. Taketani, S. Machida and S. Onuma  
Meson Theory of Nuclear Forces  
Prog. Theor. Phys., Vol. 6 No. 4 (Jul.-Aug. 1951) 638-639.
23. S. Machida, S. Onuma and M. Taketani  
On the Fourth-Order Nuclear Potential  
Prog. Theor. Phys., Vol. 6 No. 5 (Sep.-Oct. 1951) 904-905.
24. M. Taketani, S. Machida and S. Onuma  
The Meson Theory of Nuclear Forces, I  
- *The Deuteron Ground State and Low Energy Neutron-Proton Scattering* -  
Prog. Theor. Phys., Vol. 7 No. 1 (Jan. 1952) 45-56.
25. S. Fujii, J. Iwadare, S. Otsuki, M. Taketani, S. Tani and W. Watari  
Note on the Meson Theory of Nuclear Force  
Prog. Theor. Phys., Vol. 10 No. 4 (Oct. 1953) 478-480.
26. M. Taketani  
Studies on Nuclear Forces in Japan  
*Proceedings of the International Conference of Theoretical Physics*, (Sep. 1953),  
Kyoto and Tokyo, 241-244.
27. S. Fujii, J. Iwadare, S. Otsuki, M. Taketani, S. Tani and W. Watari  
Meson Theory of Nuclear Forces, II - *High Energy Nucleon-Nucleon Scattering* -  
Prog. Theor. Phys., Vol. 11 No. 1 (Jan. 1954) 11-19.
28. N. Fukuda, K. Sawada and M. Taketani  
On the Construction of Potential in Field Theory  
Prog. Theor. Phys., Vol. 12 No. 2 (Aug. 1954) 156-166.
29. H. Takebe, S. Nakamura and M. Taketani  
 $\beta$ -Ray Spectrum of RaE  
Prog. Theor. Phys., Vol. 14 No. 4 (Oct. 1955) 317-336.
30. H. Yukawa, S. Sakata and M. Taketani  
On the Interaction of Elementary Particles. III  
(*Reprinted from Proc. Phys.-Math. Soc. Japan* 20 (1938), 319-340)  
Collected Papers on Meson Theory I (*Formalism and Models*)  
Prog. Theor. Phys. Suppl., No. 1 (1955) 24-45.

31. H. Yukawa, S. Sakata, M. Kobayasi and M. Taketani  
On the Interaction of Elementary Particles. IV  
(*Reprinted from Proc. Phys.-Math. Soc. Japan* 20 (1938), 720-745)  
Collected Papers on Meson Theory I (*Formalism and Models*)  
Prog. Theor. Phys. Suppl., No. 1 (1955) 46-71.
32. M. Taketani and S. Sakata  
On the Wave Equation of Meson  
(*Reprinted from Proc. Phys.-Math. Soc. Japan* 22 (1940), 757-770)  
Collected Papers on Meson Theory I (*Formalism and Models*)  
Prog. Theor. Phys. Suppl., No. 1 (1955) 84-97.
33. S. Sakata and M. Taketani  
Note on Casimir's Method of the Spin Summation in the Case of the Meson  
(*Reprinted from Sci. Pap. I. P. C. R.* 38 (1940), 1-11)  
Collected Papers on Meson Theory I (*Formalism and Models*)  
Prog. Theor. Phys. Suppl., No. 1 (1955) 98-108.
34. M. Taketani  
On the Neutral Meson  
(*Reprinted from Prog. Theor. Phys.* 3 (1948), 349-355)  
Collected Papers on Meson Theory I (*Formalism and Models*)  
Prog. Theor. Phys. Suppl., No. 1 (1955) 219-225.
35. M. Taketani, M. Sasaki and S. Nakamura  
On the mu-Meson Capture  
(*Reprinted from Prog. Theor. Phys.* 4 (1949), 552-556)  
Collected Papers on Meson Theory I (*Formalism and Models*)  
Prog. Theor. Phys. Suppl., No. 1 (1955) 226-230.
36. M. Taketani, S. Nakamura, K. Ono and M. Sasaki  
On the Two-Meson Theory  
(*Reprinted from Phys. Rev.* 76 (1949), 60-63.)  
Collected Papers on Meson Theory I (*Formalism and Models*)  
Prog. Theor. Phys. Suppl., No. 1 (1955) 234-237.
37. S. Nakamura, H. Fukuda, K. Ono, S. Sasaki and M. Taketani  
Analysis on the Two Meson Theory  
(*Reprinted from Prog. Theor. Phys.* 5 (1950), 740-747)  
Collected Papers on Meson Theory I (*Formalism and Models*)  
Prog. Theor. Phys. Suppl., No. 1 (1955) 244-251.
38. M. Taketani, T. Hatanaka and S. Obi  
Populations and Evolution of Stars  
Prog. Theor. Phys. Vol. 15 No. 2 (Feb. 1956) 89-94.
39. K. Inoue, S. Machida, M. Taketani and T. Toyoda  
Pion Theory of Nuclear Forces  
Prog. Theor. Phys., Vol. 15 No. 2 (Feb. 1956) 122-136.

40. M. Taketani  
Introduction. Nuclear Forces and Meson Theory  
Meson Theory III. Nuclear Forces  
Prog. Theor. Phys. Suppl., No. 3 (1956) 1-12.
41. M. Taketani, S. Nakamura and M. Sasaki  
Part V. On the Method of the Theory of Nuclear Forces  
(reprinted from Prog. Theor. Phys. 6 (1951), 581-586)  
Meson Theory III. Nuclear Forces  
Prog. Theor. Phys. Suppl., No. 3 (1956) 169-174.
42. S. Nakamura, T. Ohmura and M. Taketani  
A Note on the Nuclear Reactions in Stars  
Prog. Theor. Phys., Vol. 21 No. 1 (Jan. 1959) 18-28.
43. M. Taketani, Y. Katayama, P. L. Ferreira, G. W. Bund and P. R. de Paula e Silva  
Meson Decays and Structure of Muon  
Prog. Theor. Phys., Vol. 21 No. 6 (Jun. 1959) 799-817.
44. Y. Katayama, M. Taketani and J. L. Ferreira  
On the Origin of the Electron Mass  
Prog. Theor. Phys., Vol. 21 No. 6 (Jun. 1959) 818-826.
45. Y. Katayama, M. Taketani, S. Ragusa and D. R. de Oliveira  
On the Electromagnetic Structure of Nucleons and Their Mass Difference  
Prog. Theor. Phys., Vol. 23 No. 2 (Feb. 1960) 328-352.
46. M. Taketani and Y. Katayama  
On a Unified Description of Elementary Particles  
Prog. Theor. Phys., Vol. 24 No. 3 (Sep. 1960) 661-678.
47. M. Taketani and S. Machida  
On the Method of the Theory of Nuclear Forces  
Prog. Theor. Phys., Vol. 24 No. 6 (Dec. 1960) 1317-1324.
48. S. Otuki, M. Taketani, R. Tamagaki and W. Watari  
Pion Theory of Nuclear Forces and Low Energy  $P$ -Wave Phase Shifts  
Prog. Theor. Phys., Vol. 25 No. 3 (Mar. 1961) 427-435.
49. M. Taketani  
Chapter 2. A New Stage of Elementary Particle Theory  
Part I. Introduction  
Structure of Elementary Particles  
Prog. Theor. Phys. Suppl., No. 19 (1961) 10-22 (pub. date: Mar. 1962).
50. Y. Katayama and M. Taketani  
Chapter 4. On the Structure of Lepton  
Part III. Further Outlook for the Theory of Elementary Particles  
Structure of Elementary Particles  
Prog. Theor. Phys. Suppl., No. 19 (1961) 178-188 (pub. date: Mar. 1962).

51. M. Taketani and Y. Katayama  
 On the Neutrino Unified Model for Elementary Particles  
 Part III. Further Outlook for the Theory of Elementary Particles  
 Structure of Elementary Particles  
 Prog. Theor. Phys. Suppl., No. 19 (1961) 189-202 (pub. date: Mar. 1962).
52. Y. Hama, J. Osada and M. Taketani  
 Ghost Scatterings  
 Nuovo Cim., Vol. 25 No. 5 (Sep. 1962) 1054-1060.
53. M. Taketani and M. Sawamura  
 On the Existence of a Boson  $\mu^0$   
 Prog. Theor. Phys., Vol. 27 No. 4 (Oct. 1962) 1287-1289.
54. M. Taketani and T. Tati  
 $\Delta S/\Delta Q = -1$  Decay and " Induced Transition "  
 Prog. Theor. Phys., Vol. 28 No. 4 (Oct. 1962) 757-759.
55. M. Taketani, Y. Fujimoto and K. Yokoi  
*Proceedings of the Fifth Interamerican Seminar on Cosmic Rays,*  
 La Paz, Bolivia, Vol. II (1962), LIV.
56. M. Taketani and T. Tati  
 Neutrino Unified Model Based on Two Kinds of Neutrinos  
 Prog. Theor. Phys., Vol. 30 No. 1 (Jul. 1963) 134-136.
57. K. Aizu, Y. Fujimoto, H. Hasegawa, S. Hayakawa and M. Taketani  
 A Model of Star-like Objects  
 Prog. Theor. Phys., Vol. 32 No. 6 (Dec. 1964) 971-973.
58. K. Aizu, Y. Fujimoto, H. Hasegawa, K. Kawabata and M. Taketani  
 A New Diagram Representing the Evolution of Galaxies  
 Prog. Theor. Phys., Vol. 32 No. 6 (Dec. 1964) 973-975.
59. Y. Fujimoto, H. Hasegawa and M. Taketani  
 Extra-Galactic Cosmic Rays  
 Prog. Theor. Phys., Vol. 32 No. 6 (Dec. 1964) 975-977.
60. M. Taketani  
 Preface  
 Origin of Cosmic Rays  
 Prog. Theor. Phys. Suppl., No. 30 (1964) 1 (pub. date: Apr. 1965).
61. K. Aizu, Y. Fujimoto, H. Hasegawa and M. Taketani  
 Introduction and General Review  
 Origin of Cosmic Rays  
 Prog. Theor. Phys. Suppl., No. 30 (1964) 2-31 (pub. date: Apr. 1965).
62. Y. Fujimoto, H. Hasegawa and M. Taketani  
 Part 1. Cosmic Rays in Galactic and Extragalactic Space

- Origin of Cosmic Rays  
 Prog. Theor. Phys. Suppl., No. 30 (1964) 32-85 (pub. date: Apr. 1965).
63. M. Taketani, Y. Fujimoto and K. Yokoi  
 Appendices. Evolution of Galaxies and Its Relation to Origin of Cosmic Rays  
*(reprinted from Proc. Fifth Interamerican Seminars on Cosmic Rays,*  
 La Paz (Bolivia), 1962, Vol. II)  
 Origin of Cosmic Rays  
 Prog. Theor. Phys. Suppl., No. 30 (1964) 244-249 (pub. date: Apr. 1965).
64. M. Taketani  
 Preface  
 Structure and Evolution of Galaxies  
 Prog. Theor. Phys. Suppl., No. 31 (1964) 1 (pub. date: Mar. 1965).
65. T. Hatanaka, S. Hayakawa, K. Ishida and M. Taketani  
 Part I. Evolution of Galaxies - *Development of Its Research in Japan* -  
 Structure and Evolution of Galaxies  
 Prog. Theor. Phys. Suppl., No. 31 (1964) 2-34 (pub. date: Mar. 1965).
66. K. Aizu, Y. Fujimoto, H. Hasegawa, K. Kawabata and M. Taketani  
 Part II. Radio Galaxies  
 Structure and Evolution of Galaxies  
 Prog. Theor. Phys. Suppl., No. 31 (1964) 35-76 (pub. date: Mar. 1965).
67. M. Taketani, T. Hatanaka and S. Obi  
 Part VI. Appendix. Populations and Evolution of Stars  
 Structure and Evolution of Galaxies  
*(reprinted from Prog. Theor. Phys., Vol. 15 (1956) 89-94)*  
 Structure and Evolution of Galaxies  
 Prog. Theor. Phys. Suppl., No. 31 (1964) 156-161 (pub. date: Mar. 1965).
68. K. Aizu, Y. Fujimoto, H. Hasegawa and M. Taketani  
 An Evolutional Track of Galaxies in  $L - (L/V)$  Diagram  
 Prog. Theor. Phys., Vol. 33 No. 5 (May 1965) 996-997.
69. Y. Katayama and M. Taketani  
 Neutrino Unified Model for Elementary Particles  
 Prog. Theor. Phys., Vol. 33 No. 6 (Jun. 1965) 1141-1143.
70. M. Taketani and Y. Fujimoto  
 High Energy Nuclear Interactions and Structure of Elementary Particles  
 Commemoration Issue for the Thirtieth Anniversary of the Meson Theory by Dr. H. Yukawa  
 Prog. Theor. Phys. Suppl., Extra No. (Sep. 1965) 651-660.
71. M. Taketani  
 On the Meson Theory of Nuclear Forces  
*Proceedings of the International Conference on Elementary Particles,*  
 Kyoto (1965) 170-181 (pub. date: 1966).

72. M. Taketani, S. Nakamura and Y. Fujimoto  
 On the Fundamental Concepts in the Theory of Elementary Particles. I  
 - *History of the Tomonaga Theory of Fields* -  
 Dedicated to Professor Sin-itiro Tomonaga on the Occasion of his Sixtieth Birthday  
 Prog. Theor. Phys. Suppl., No. 37 & 38 (Dec. 1966) 433-439.
73. M. Taketani, S. Nakamura, Y. Fujimoto, M. Nagasaki, S. Furuichi and S. Sato  
 On the Fundamental Concepts in the Theory of Elementary Particles. II  
 - *Present Problems* -  
 Dedicated to Professor Sin-itiro Tomonaga on the Occasion of his Sixtieth Birthday  
 Prog. Theor. Phys. Suppl., No. 37 & 38 (Dec. 1966) 440-450.
74. M. Nagasaki, T. Hirasawa and M. Taketani  
 On the Analysis of Nucleon-Nucleon Scattering with Large Momentum Transfers  
 Prog. Theor. Phys. Vol. 38 No. 2 (Aug. 1967) 514-516.
75. M. Taketani  
 Introduction - *Our History and the Underlying Philosophy* -  
 Part I. *Nuclear Force in Dynamical Region*  
 Nuclear Forces  
 Prog. Theor. Phys. Suppl., No. 39 (Aug. 1967) 1-22.
76. T. Hirasawa, K. Aizu and M. Taketani  
 Formation of Galaxies from Hydrogen Gas  
 Prog. Theor. Phys., Vol. 41 No. 3 (Mar. 1969) 835-838.
77. K. Aizu and M. Taketani  
 Radio Evolution of Pulsars  
 Prog. Theor. Phys., Vol. 44 No. 2 (Aug. 1970) 363-374.
78. M. Nagasaki and M. Taketani  
 Level Structure of Hadrons  
 Prog. Theor. Phys., Vol. 44 No. 4 (Oct. 1970) 1112-1114.
79. K. Aizu, S. Hayakawa, H. Sato and M. Taketani  
 Chapter I. General Review and Summary - *Astrophysical Cosmology* -  
 Evolution of the Universe and Formulation of Galaxies  
 Prog. Theor. Phys. Suppl., No. 49 (1971) 1-10 (pub. date: Feb. 1972).
80. K. Aizu, H. Tabara and M. Taketani  
 Chapter VII. Quasistellar Objects  
 Evolution of the Universe and Formulation of Galaxies  
 Prog. Theor. Phys. Suppl., No. 49 (1971) 228-247 (pub. date: Feb. 1972).
81. M. Taketani  
 Methodological Approaches in the Development of the Meson Theory  
 of Yukawa in Japan  
 Historical Introduction  
 Philosophical and Methodological Problems in Physics  
 Prog. Theor. Phys. Suppl., No. 50 (1971) 12-24 (pub. date: Mar. 1972).



82. M. Taketani  
Dialectics of Nature - *On Quantum Mechanics* -  
Part I  
Philosophical and Methodological Problems in Physics  
Prog. Theor. Phys. Suppl., No. 50 (1971) 27-36 (pub. date: Mar. 1972).
83. M. Taketani  
A New Stage in the Development of Modern Physics  
- *On Research Contribution of Nobeliens, the Joliot-Curie's* -  
Part I  
Philosophical and Methodological Problems in Physics  
Prog. Theor. Phys. Suppl., No. 50 (1971) 37-48 (pub. date: Mar. 1972).
84. M. Taketani  
On Research Contribution of Niels Bohr  
Part I  
Philosophical and Methodological Problems in Physics  
Prog. Theor. Phys. Suppl., No. 50 (1971) 49-52 (pub. date: Mar. 1972).
85. M. Taketani  
On Formation of the Newton Mechanics  
Part I  
Philosophical and Methodological Problems in Physics  
Prog. Theor. Phys. Suppl., No. 50 (1971) 53-64 (pub. date: Mar. 1972).
86. M. Taketani  
Observation Problem of Quantum Mechanics  
Part I  
Philosophical and Methodological Problems in Physics  
Prog. Theor. Phys. Suppl., No. 50 (1971) 65-72 (pub. date: Mar. 1972).
87. M. Taketani  
Appendix. (1) Light Quanta and Special Relativity  
Part I  
Philosophical and Methodological Problems in Physics  
Prog. Theor. Phys. Suppl., No. 50 (1971) 73-76 (pub. date: Mar. 1972).
88. M. Taketani  
Appendix. (2) Substance and Essence  
Part I  
Philosophical and Methodological Problems in Physics  
Prog. Theor. Phys. Suppl., No. 50 (1971) 77-80 (pub. date: Mar. 1972).
89. M. Taketani  
Conflict between Matter and Field  
- *An Analysis of the Difficulties of the Theory of Elementary Particles* -  
Part II  
Philosophical and Methodological Problems in Physics  
Prog. Theor. Phys. Suppl., No. 50 (1971) 89-97 (pub. date: Mar. 1972).

90. M. Taketani  
 New Development of Theory of Elementary Particles  
 - *Theory of Shoichi Sakata and Related Problems* -  
 Part II  
 Philosophical and Methodological Problems in Physics  
 Prog. Theor. Phys. Suppl., No. 50 (1971) 127-139 (pub. date: Mar. 1972).
91. M. Taketani, S. Nakamura, K. Ono and M. Sasaki  
 Appendix. Two Meson Theory  
 Part II  
 Philosophical and Methodological Problems in Physics  
 Prog. Theor. Phys. Suppl., No. 50 (1971) 140-143 (pub. date: Mar. 1972).
92. M. Taketani and S. Nakamura  
 On the Method of the Theory of Elementary Particles  
 Part III  
 Philosophical and Methodological Problems in Physics  
 Prog. Theor. Phys. Suppl. No. 50 (1971) 145-149 (pub. date: Mar. 1972).
93. M. Taketani  
 Program of Research on Nuclear Force (1953 Proposal)  
 Part III  
 Philosophical and Methodological Problems in Physics  
 Prog. Theor. Phys. Suppl. No. 50 (1971) 159-162 (pub. date: Mar. 1972).
94. M. Taketani  
 Appendix. (3) A Thought on Structure of Elementary Particles  
 Part IV  
 Philosophical and Methodological Problems in Physics  
 Prog. Theor. Phys. Suppl., No. 50 (1971) 214-219 (pub. date: Mar. 1972).
95. M. Taketani  
 Stellar Evolution and Galactic Evolution  
 - *From THO Theory to Star-like Problem* -  
 Part V. Towards New Concepts of Nature  
 Philosophical and Methodological Problems in Physics  
 Prog. Theor. Phys. Suppl., No. 50 (1971) 220-230 (pub. date: Mar. 1972).
96. M. Taketani and S. Nakamura  
 Nuclear Physics and Astronomy  
 Part V. Towards New Concepts of Nature  
 Philosophical and Methodological Problems in Physics  
 Prog. Theor. Phys. Suppl., No. 50 (1971) 231-234 (pub. date: Mar. 1972).
97. M. Nagasaki and M. Taketani  
 Excitation of Hadronic Matter and  $H$ -Quantum  
 Prog. Theor. Phys., Vol. 49 No. 1 (Jan. 1973) 368-370.

98. K. Aizu and M. Taketani  
On the Phase of Pulsar Evolution  
- *A Comment on Tsarevsky's Paper* -  
Prog. Theor. Phys., Vol. 49 No. 4 (Apr. 1973) 1371-1372.
99. M. Nagasaki and M. Taketani  
Angular Distribution of  $p$ - $p$  Scattering at High Energies and Radius of the Hard Core  
Prog. Theor. Phys., Vol. 49 No. 5 (May 1973) 1768-1770.
100. M. Nagasaki and M. Taketani  
Angular Distribution of  $p$ - $p$  Elastic Scattering at High Energies and Distribution of Absorption  
Prog. Theor. Phys., Vol. 49 No. 6 (Jun. 1973) 2145-2147.
101. M. Taketani, T. Tati, K. Mori, M. Nagasaki, Y. Fujimoto and S. Hasegawa  
Introduction and Summary  
- *Theoretical Models for Multiple Production of Mesons* -  
Ultra-High Energy Phenomena and New State of Matter  
Prog. Theor. Phys. Suppl., No. 54 (1973) 1-16 (pub. date: Jun. 1974).
102. M. Nagasaki and M. Taketani  
Angular Distribution of  $p$ - $p$  Elastic Scattering at High Energy and Radius of the Hard Core  
Ultra-High Energy Phenomena and New State of Matter  
Prog. Theor. Phys. Suppl., No. 54 (1973) 51-72 (pub. date: Jun. 1974).
103. M. Nagasaki and M. Taketani  
Excitation of Hadronic Matter and  $H$ -quantum  
Ultra-High Energy Phenomena and New State of Matter  
Prog. Theor. Phys. Suppl., No. 54 (1973) 73-92 (pub. date: Jun. 1974).
104. M. Taketani  
Opening Door to New Physics  
- *History and Underlying Philosophy of the Research Group on  
Ultra-High Energy Phenomena and New State of Matter* -  
An attached paper with 14 pages to Prog. Theor. Phys. Suppl., No. 54 (1973)  
(pub. date: Jun. 1974).
105. M. Taketani and M. Nagasaki  
" Centauro " Phenomenon and the Decay of  $UH$ -Quantum  
Prog. Theor. Phys., Vol. 53 No. 4 (Apr. 1975) 1212-1213.
106. M. Taketani  
On Present-Day Problems in Theory of Elementary Particles  
Fire-Balls in Pion Multiple Production  
Prog. Theor. Phys. Suppl., No. 76 (Nov. 1983) 224-242.
107. Mituo Taketani  
Theoretical Study of Cosmic Rays in Japan  
*Early History of Cosmic Ray Studies: Personal Reminiscences with Old Photographs*  
(Astrophysics and Space Science Library ; v. 118)  
ed. by Yataro Sekido and Harry Elliot, D. Reidel, (1985) 285-294.

108. H. Yukawa, S. Sakata and M. Taketani  
 Appendix. On the Theory of the New Particle in Cosmic Ray  
 Prog. Theor. Phys. Suppl., No. 85 (1985) 310-311 (pub. date: Mar. 1986)  
 (Published as the *Proceedings of the Kyoto International Symposium,  
 The Jubilee of the Meson Theory*, Kyoto, Japan, August 15-17,1985)  
 An unpublished paper sent to the Physical Review on 4th October 1937.
109. M. Taketani, L. M. Brown, Y. Fujimoto, M. Konuma, M. Nagasaki and T. Tsuji  
 7. Physics and Philosophy - *Interview with Mituo Taketani* -  
 II. Interviews  
 Part I. Proceedings of the Japan-USA Collaborative Workshops on the History of  
 Particle Theory in Japan, 1930-1950 (Japan-USA Collaboration September 1978-July 1979)  
 Elementary Particle Theory in Japan, 1930-1960  
*Proceedings of the Japan-USA Collaborative Workshops*  
 Prog. Theor. Phys. Suppl., No. 105 (Dec. 1991) 86-98.

## 参考文献

- [1] 矢野 忠, 武谷三男博士の業績リスト, 素粒子論研究, 第 107 巻, 第 4 号 (2003.7) 9-18
- [2] 矢野 忠, 武谷三男博士の業績リスト (第 2 版), 素粒子論研究, 第 116 巻, 第 5 号 (2008.12) 159-168
- [3] 矢野 忠, 武谷三男博士の著作目録, 素粒子論研究, 第 109 巻, 第 2 号 (2004.5) 16-33
- [4] 矢野 忠, 武谷三男博士の業績・著作補遺, 素粒子論研究, 第 111 巻, 第 2 号 (2005.5) 100-103
- [5] 矢野 忠, 武谷三男博士の業績・著作補遺 2, 素粒子論研究, 第 113 巻, 第 1 号 (2006.4) 1-2
- [6] 矢野 忠, 武谷三男博士の著作目録 (第 2 版), 素粒子論研究, 第 116 巻, 第 5 号 (2008.12) 169-187
- [7] 矢野 忠, 武谷三男博士の著作目録 (第 3 版), 素粒子論研究電子版, 投稿中