

List of Publications

著書（共著）

1. 『基礎物理学 I』
森井 俊行、後藤 憲一、伊佐 雄、藤井 盛澄 他 17 名
共立出版 (1984)
2. 『基礎物理学 II』
森井 俊行、後藤 憲一、斎藤 祐四郎、元場 俊雄 他 14 名
共立出版 (1985)
3. Proceedings of the Workshop on Quark Models and Hadron Structure,
(Kobe, Oct. 11, 1990) ed. T. Morii
4. Proceedings of the Ciucum-Pan-Pacific Workshop on High Energy Spin Physics,
(Kobe, Oct. 2-4, 1996) ed. T. Morii and S. N. Mukherjee
5. Proceedings of the Mini-Workshop on Hadron Structure with Quark Dynamics,
(Kobe, Dec. 8, 2001) ed. T. Morii
6. “The Physics of the Standard Model and Beyond”
T. Morii, C.S. Lim and S.N. Mukherjee,
World Scientific Pub., (April, 2004)

訳書（共訳）

1. 『マンドル量子力学』
森井 俊行、蛭名 邦禎
丸善出版 (1998)

随筆など

1. 「高エネルギー素粒子反応を支配する力学は何か」
神戸大学教養部広報 No.49 (1977)
2. 「フンボルト 研究者として」
神戸大学教養部広報 No.62 (1983)
3. 「ドイツとの出会いの一コマ」
神戸大学教職員組合教養部支部通信「つる甲」 No.25 (1983)
4. 「あいさつにかえて」
神戸大学教職員組合教養部支部通信「つる甲」 No.31 (1990)
5. 「ドイツ人の自己主張」
神戸大学教養部広報 No.76 (1990)

6. 科学エッセイ (神戸新聞夕刊)
 - 1992年 9月 21日 「物理と対称性—法則と現実を結ぶ粒子」
 - 1992年 10月 12日 「物理と教養—知識より科学する心を」
 - 1992年 11月 2日 「クォークの姿—閉じ込められた粒子」
 - 1992年 11月 30日 「科学と合理的精神—豊かな想像力で創造を」
 - 1992年 12月 21日 「物理学はどこへ行くか—若い人に夢とロマンを」
7. 「深く学び歴史の流れを読みとって」
学生新聞 (神戸大学版) 1994年 6月号
8. 「黄 (ファン) さんの素顔」
神戸大学広報委員会 「六甲ひろば」 No.46 (2001)
9. 「自然科学系における学位と就職問題：一研究室での経験から」
日本の科学者 vol.38, No.5 (May, 2003)
10. 「「わかる」ということは—世界物理年2005に際して—」
日本科学者会議兵庫支部通信 2004年度第10号

学術論文 (Refereed papers)

1. Fireball Model with Double Regge Pole Exchange for Multiple Meson Production in the Accelerator Energy Region,
Toshiyuki Morii
Prog. Theor. Phys. **43**, 731–741 (1970)
2. Optical Model and ρ -Meson Matter Density,
T. Egusa and T. Morii
Prog. Theor. Phys. **44**, 1706–1707 (1970)
3. Non-Diffractive Mechanism in Multi-Particle Production Processes,
T. Morii and H. Noda
Prog. Theor. Phys. **49**, 2141–2142 (1973)
4. Diffractive Mechanism in Multi-Particle Production Processes,
T. Morii and H. Noda
Prog. Theor. Phys. **49**, 2143–2144 (1973)
5. Rank Structure of Exclusive Reactions,
T. Morii and H. Noda
Prog. Theor. Phys. **50**, 626–637 (1973)
6. Non-Diffractive and Diffractive Mechanism in Multi-Particle Production Process,
T. Morii and H. Noda
Prog. Theor. Phys. **51**, 546–560 (1974)

7. Forward-Backward Asymmetry in Multi-Particle Production Processes,
T. Morii and H. Noda
Prog. Theor. Phys. **51**, 945–946 (1974)
8. Structure of Inner Couplings in Exclusive Reactions,
T. Morii and H. Noda
Prog. Theor. Phys. **52**, 218–229 (1974)
9. Structure of Hadron-Hadron Collision at High Energies and a New Integral Equation for
Production Amplitudes,
T. Morii and H. Noda
Prog. Theor. Phys. **52**, 602–617 (1974)
10. Backward Emission of Relativistic Particles in the Laboratory System in 200 GeV Proton-
Nucleus Collisions,
G. Fujioka, M. Miyagaki, T. Morii, Y. Tsuzuki and 11 others
J. Phys. Soc. Jpn. **39**, 1131–1132 (1975)
11. Coherent Multiple Production in Proton-Nucleus Collisions at 200 and 300 GeV/c,
S. Konishi, G. Fujioka, M. Miyagaki, T. Morii, Y. Tsuzuki and 13 others
Phys. Rev. **D13**, 1826–1830 (1976)
12. Particle Correlations in an Independent Emission Model,
K. Kobayakawa and T. Morii
Prog. Theor. Phys. **56**, 1338–1339 (1976)
13. Photoproduction of Vector Mesons,
T. Morii and M. Tsuge
Nuovo Cimento Letters **23**, 470–474 (1978)
14. A Modified Cascade Model for Hadron-Nucleus Collisions at High Energies,
S. Hirabayashi, K. Kobayakawa and T. Morii
Prog. Theor. Phys. **61**, 117–128 (1979)
15. Jet-Production Mechanism in Lepton-Hadron Reactions,
T. Kitazoe and T. Morii
Phys. Rev. **D21**, 685–694 (1980)
16. Jet Structure in Lepton-Nucleon Scattering,
T. Kitazoe and T. Morii
Nucl. Phys. **B164**, 76–102 (1980)
17. Spectroscopy of Atomlike mesons $Q\bar{q}$ in the Dirac Equation with Logarithmic Confining
Potential,
M. Kaburagi, M. Kawaguchi, T. Morii, T. Kitazoe and J. Morishita
Phys. Lett. **B97**, 143–146 (1980)

18. Spectroscopy of Atomlike Mesons $Q\bar{q}$ in the Dirac Equation with Scalar Confining Potential,
M. Kaburagi, M. Kawaguchi, T. Morii, T. Kitazoe and J. Morishita
Z. Phys. **C9**, 213–220 (1981)
19. Spectroscopy of Charmed Baryons,
T. Morii, M. Kaburagi, M. Kawaguchi, T. Kitazoe, M. Tomita, J. Morishita and M. Oka
Z. Phys. **C17**, 219–227 (1983)
20. Toponium Production from Two-gluon Fusion in Proton-Antiproton Collisions,
H. Inazawa, T. Kitazoe, T. Morii and W.W. Wada
Phys. Lett. **B142**, 217–220 (1984)
21. Spectroscopy of $Q\bar{Q}g$ Hybrid Mesons,
T. Kitazoe, M. Wada, M. Kaburagi, M. Kawaguchi, T. Morii, and M. Oka
Z. Phys. **C24**, 143–149 (1984)
22. Production of Composite Bose Particles and Missing Large P_T Events of UA1 and UA2,
H. Inazawa, T. Morii, T. Kitazoe and T. Watanabe
Z. Phys. **C28**, 81–86 (1985)
23. Higgs-Hyperfermion Interaction and Large Missing Transverse Energy Events,
H. Inazawa, T. Morii, T. Kitazoe, S. Tanaka and T. Watanabe
Phys Lett. **B167**, 235–240 (1986)
24. Baryon Spectrum in the Potential Model with Relativistic Corrections,
M. Tsuge, T. Morii and J. Morishita
Mod. Phys. Lett A**1**, 131–139 (1986)
25. Semi-relativistic Theory for Atom-like Mesons $Q\bar{q}$,
J. Morishita, M. Kawaguchi and T. Morii
Phys. Lett. **B185**, 139–144 (1987)
26. Spectroscopy of Atomlike Mesons $Q\bar{q}$ in a Semirelativistic Theory,
J. Morishita, M. Kawaguchi and T. Morii
Phys. Rev. **D37**, 159–178 (1988)
27. Ultra Heavy Fermion Bound States via Higgs Exchange,
H. Inazawa and T. Morii
Phys. Lett. **B203**, 279–282 (1988)
28. Equal Velocity Rule in Heavy Hadron Production at High Energy,
T. Kitazoe, H. Inazawa and T. Morii
Int. J. Mod. Phys. **A4**, 369–387 (1989)
29. Production of Ultraheavy S -state Bound States $\eta_Q(0^{-+})$ and $\psi(1^{--})$ in Multi-TeV Collider Energies,

- H. Inazawa and T. Morii
Z. Phys. **C42**, 563–568 (1989)
30. Production of Ultraheavy Leptonium and/or Quarkonium at e^+e^- Colliders in TeV Regions,
H. Inazawa, T. Morii and S. Tanaka
Z. Phys. **C43**, 569–573 (1989)
31. Ultraheavy Quarkonium and its Production in Multi-TeV Hadron Colliders,
H. Inazawa, T. Morii and J. Morishita
Z. Phys. **C46**, 273–279 (1990)
32. Superheavy Toponium Production at Multi-TeV Colliders,
H. Inazawa and T. Morii
Phys. Lett. **B247**, 107–112 (1990)
33. Superheavy Toponium $\psi_t(1^{--})$ Bound via Higgs-boson Exchange,
H. Inazawa, T. Morii, J. Morishita and S.N. Mukherjee
Mod. Phys. Lett. A **6**, 1885–1892 (1991)
34. Effects of $1/m_Q$ Corrections on Semi-Leptonic Decays in the Heavy Quark Effective Theory,
T. Ito, T. Morii and M. Tanimoto
Phys. Lett. **B274**, 449–455 (1992)
35. Semileptonic Decays of Atomlike Hadrons in the Heavy Quark Effective Theory,
T. Ito, T. Morii and M. Tanimoto
Prog. Theor. Phys. **88**, 561–570 (1992)
36. Polarization of Partons in the Proton,
K. Kobayakawa, T. Morii, S. Tanaka and T. Yamanishi
Phys. Rev. **D46**, 2854–2863 (1992)
37. $t\bar{t}$ Bound State Production at Multi-TeV Hadron Colliders,
H. Inazawa and T. Morii
Phys. Rev. Lett. **70**, 2992–2995 (1993)
38. Mass level of heavy flavored hadrons in the heavy-quark effective theory,
T. Ito, T. Morii and M. Tanimoto
Z. Phys. **C59**, 57–61 (1993)
39. Quark Potential Approach to Baryons and Mesons,
S.N. Mukherjee, R. Nag, S. Sanyal, T. Morii, J. Morishita and M. Tsuge
Phys. Rep. **231**, No.5, 201–292 (1993)
40. Two-spin asymmetry in $\bar{p}p$ Reactions and spin-dependent parton distributions,
K. Kobayakawa, T. Morii and T. Yamanishi
Z. Phys. **C59**, 251–255 (1993)

41. K -meson spectroscopy in the static limit of s -quark,
T. Ito, T. Morii and M. Tanimoto
Prog. Theor. Phys. **90**, 419–425 (1993)
42. Effects of the large gluon polarization on $xg_1^d(x)$ and J/ψ productions at polarized ep and pp collisions,
T. Morii, S. Tanaka and T. Yamanishi
Phys. Lett. **B322**, 253–258 (1994)
43. The shape of polarized gluon distributions,
T. Morii, S. Tanaka and T. Yamanishi
Z. Phys. **C67**, 621–626 (1995)
44. The Spin-Dependent Gluon Distribution in a Proton,
T. Morii, S. Tanaka and T. Yamanishi
Prog. Theor. Phys. Supplement, No.120, pp.231–237 (1995)
45. Two-spin asymmetries for χ productions at RHIC,
T. Morii, S. Tanaka and T. Yamanishi
Phys. Lett. **B372**, 165–171 (1996)
46. Δs density in a proton and unpolarized lepton-polarized proton scatterings,
T. Morii, Alexander I. Titov and T. Yamanishi
Phys. Lett. **B375**, 343–348 (1996)
47. Relativistic corrections to the polarized structure functions in the resonance region,
Dong Yu-bing, T. Morii, T. Yamanishi
Phys. Rev. **D55**, 4141–4150 (1997)
48. Semi-inclusive Λ_c^+ lepton productions and polarized gluon distributions,
N. I. Kochelev, T. Morii and T. Yamanishi
Phys. Lett. **B405**, 168–172 (1997)
49. Spectroscopy of heavy mesons expanded in $1/m_Q$,
T. Matsuki and T. Morii
Phys. Rev. **D56**, 5646–5667 (1997)
50. Photoproduction of ϕ mesons from the proton: Polarization observables and strangeness in the nucleon,
A. I. Titov, Y. Oh, S.N. Yang and T. Morii
Phys. Rev. **C58**, 2429–2449 (1998)
51. ψ' productions as a test of color-octet mechanism,
T. Morii, D. Roy, K. Sudoh, Z. Sun, S. Tanaka and T. Yamanishi
Phys. Rev. **D57**, 4487–4490 (1998)

52. Probing nucleon strangeness structure with ϕ electroproduction,
Y. Oh, A. I. Titov, S. N. Yang and T. Morii
Phys. Lett. **B462**, 23–28 (1999)
53. Pomeron fusion and central η and η' meson production,
N. I. Kochelev, T. Morii and A.V. Vinnikov
Phys. Lett. **B457**, 202–206 (1999)
54. Relativistic harmonic oscillator model and electroproduction of low-lying resonances,
Yu-bing Dong, A. Feassler and T. Morii
Nucl. Phys. **A651**, 209–221, (1999)
55. Is There Window for a “Supersoft” Pomeron in J/ψ Photoproduction at Low Energy?,
D. Roy, T. Morii, H. Toki and A. I. Titov
Prog. Theor. Phys., **103** , No.4, 747–753 (2000)
56. Spectra of doubly heavy quark baryons,
D. U. Matrasulov, M. M. Musakhanov and T. Morii
Phys. Rev. **C61**, 045204(1–7) (2000)
57. Polarized light–sea-quark flavor asymmetry in polarized semi-inclusive processes,
T. Morii and T. Yamanishi
Phys. Rev. **D61**, 057501(1–4) (2000)
58. The Role of Secondary Reggeons in Central Meson Production
N. I. Kochelev, T. Morii, B. L. Reznik and A. V. Vinnikov
Eur. Phys. J. **A8** No. 3 405-408 (2000)
59. Polarized parton distribution functions in the nucleon,
Y. Goto, N. Hayashi, M. Hirai, H. Horikawa, S. Kumano, M. Miyama T. Morii, N. Saito,
T.-A. Shibata, E. Taniguchi and T. Yamanishi
Phys. Rev. **D62**, 034017(1–18) (2000)
60. Two-spin asymmetry for ψ' photoproduction with the color-octet mechanism,
K. Sudoh and T. Morii
Phys. Rev. **D62**, 057501(1–4) (2000)
61. Diffractive Λ_c^+ production in polarized pp reactions and polarized gluon distribution,
S. Oyama, T. Morii and N. I. Kochelev
Phys. Rev. **D62**, 057502(1–4) (2000)
62. Λ_c^+ production in polarized pp scattering and polarized gluon distribution,
K. Ohkuma, K. Sudoh and T. Morii
Phys. Lett. **B491**, 117–122 (2000)
63. On a possible manifestation of f_1 trajectory in J/ψ photoproduction,
Dayeeta Roy, Toshiyuki Morii and Alexander I. Titov
Phys. Lett. **B513**, 71–76 (2001).

64. Electroproduction of ψ' and polarized gluon distribution in a proton,
Kazutaka Sudoh, Han-Wen Huang and Toshiyuki Morii
Phys. Lett. **B515**, 99–104 (2001)
65. Extraction of polarized gluon distributions from large- p_T light hadron pair production,
Yu-Bing Dong, T. Morii and T. Yamanishi
Phys. Lett. **B520**, 99–107 (2001)
66. Perturbative and non-perturbative QCD corrections to wide-angle Compton scattering,
H. W. Huang, P. Kroll and T. Morii
Eur. Phys. J. **C23** 301–310 (2002)
67. Single Diffractive Λ_c^+ Production in Polarized pp Scattering with Polarized Gluon Distribution in the Proton,
K. Ohkuma and T. Morii
Mod. Phys. Lett. **A17**, No. 24, 1575–1582 (2002)
68. Higgs mass sum rule in the light of searching for Z' boson at the Tevatron,
G. A. Kozlov and T. Morii
Phys. Lett. **B545**, 127–131 (2002)
69. Review on spectroscopy of heavy mesons expanded in $1/m_Q$,
T. Matsuki, T. Morii and K. Seo
Trends in Applied Spectroscopy, vol. 4, 127–140 (2002)
70. Search for new Higgs physics in CDF at the Tevatron,
G. A. Kozlov and T. Morii
Phys. Rev. **D67**, 055001(1–10) (2003)
71. One-loop helicity amplitudes for parton level virtual Compton scattering,
H.W. Huang and T. Morii
Phys. Rev. **D68**, 014016(1–9) (2003)
72. Production of heavy quarkonia and new Higgs physics at hadron colliders,
G. A. Kozlov, A. N. Sissakian, J. I. Khubua, G. Arabidze, G. Khorauli and T. Morii
J. Phys. **G30**, 1201–1218 (2004)
73. 0^+ and 1^+ States of B and B_s Mesons,
T. Matsuki, K. Mawatari, T. Morii and K. Sudoh
hep-ph/0411034 (to be published in Phys. Lett. B)

国際会議報告 (Proceedings)

1. Particle Correlations in Proton-Nucleon Collisions at 205 GeV/c,
G. Fujioka, K. Kobayakawa, T. Morii, Y. Tsuzuki and 12 others
Proc. Int. Cosmic Ray Symp. on High Energy Phenomena (Tokyo) p.203 (1974)

2. Proton-Nucleus Interactions at High Energies,
G. Fujioka, M. Miyagaki, T. Morii, Y. Tsuzuki and 12 others
14th Int. Cosmic Ray Conf. Papers (München) **7**, 2400 (1975)
3. Jets in Lepton-Hadron Interactions,
T. Kitazoe and T. Morii
16th Int. Cosmic Ray Conf. Papers (Kyoto) **7**, 328 (1979)
4. The Two and Three Body Force in Baryons,
M. Tsuge, T. Morii and J. Morishita
Proceedings of 14th ICGTMP, ed. by Y. M. Cho, Aug. 26–30 (Seoul) p.493 (1985)
5. Heavy Particle Materialization in Bound State Picture,
T. Kitazoe, H. Inazawa and T. Morii
Proc. of the 2nd Int. Conf. on Hadron Spectroscopy, April 16–18 (KEK) p.445 (1987)
6. P State Baryons and Non-Local Potentials,
M. Tsuge, T. Morii and J. Morishita
Proc. of the 2nd Int. Conf. on Hadron Spectroscopy, April 16–18 (KEK) p.450 (1987)
7. Spectroscopy of Atomlike Mesons $Q\bar{q}$,
J. Morishita, M. Kawaguchi and T. Morii
Proc. of the 2nd Int. Conf. on Hadron Spectroscopy, April 16–18 (KEK) p.451 (1987)
8. Other Possible Solution to the Solar Neutrino Puzzle and the Neutrino Mass Estimation,
H. Anada, H. Inazawa, K. Kobayakawa and T. Morii
20th Int. Cosmic Ray Conf. Papers (Moscow) **4**, 367 (1987)
9. Production and Decay of New Composite Particles Composed of Fermion and Boson in High Energy Hadron Collision,
H. Inazawa and T. Morii
20th Int. Cosmic Ray Conf. Papers (Moscow) **7**, 382 (1987)
10. Large Enhancement of the Production of Ultraheavy Quark Bound States via Higgs-boson Exchange in Multi-TeV Collider Energies,
H. Inazawa and T. Morii
Proceedings of the 2nd Meeting on Physics at TeV Energy Scale, (KEK) pp.8–15 (1988)
11. Production and Decay of Superheavy Quarkonia in Multi-TeV Colliders,
H. Inazawa, T. Morii and J. Morishita
Proceedings of the 3rd Meeting on Physics at TeV Energy Scale, (KEK) pp.77–82 (1989)
12. Production of Ultraheavy Bound States at e^+e^- Colliders in TeV Regions,
H. Inazawa, T. Morii and J. Morishita
Proceedings of the 1st Workshop on Japan Linear Collider (JLC), (KEK) pp.199–204 (1989)

13. Production and Decay of Ultraheavy Bound States in Multi-TeV Regions,
H. Inazawa, T. Morii, J. Morishita and S. Tanaka
Proceedings of 21st Int. Cosmic Ray Conf. (Adelaide, Australia) **8**, p.5 (1990)
14. Baryon Mass Levels in the Quark Model with Relativistic Corrections,
T. Morii, J. Morishita and M. Tsuge
Proceedings of the Workshop on Quark Models and Hadron Structure, (Kobe 1990) pp.73–89 (1990)
15. Semirelativistic Theory of Atomlike Mesons $Q\bar{q}$,
M. Kawaguchi, T. Morii and J. Morishita
Proceedings of the Workshop on Quark Models and Hadron Structure, (Kobe 1990) pp.91–102 (1990)
16. Superheavy Toponium,
H. Inazawa and T. Morii
Proceedings of the Workshop on Quark Models and Hadron Structure, (Kobe 1990) pp.103–125 (1990)
17. Production of Superheavy Toponium $\psi_t(1^{--})$ in e^+e^- Colliders,
H. Inazawa, T. Morii, J. Morishita and S.N. Mukherjee
Proceedings of the Workshop on Quark and Lepton Spectroscopy, (Shizuoka 1990) pp.104–115 (1990)
18. Two-spin Asymmetry in $\bar{p}p$ Reactions and Spin-dependent Parton Distributions,
T. Yamanishi, K. Kobayakawa and T. Morii
35th Yamada Conference, 10th International Symposium on High Energy Spin Physics,
(Nagoya 1992) Proc. of 10th Symposium on High Energy Spin Physics, p.575 (1992)
19. Spin Symmetry in Heavy Flavors,
T. Ito T. Morii and M. Tanimoto
35th Yamada Conference, 10th International Symposium on High Energy Spin Physics,
(Nagoya 1992) Proc. of 10th Symposium on High Energy Spin Physics, p.665 (1992)
20. The spin structure of nucleons and deep inelastic scatterings,
Toshiyuki Morii
Proceedings of the XIIth International Seminar on High Energy Physics Problems, pp.187–196 (Dubna, Sept. 12–17, 1994)
21. Spectroscopy and Decays of Heavy Mesons,
Takayuki Matsuki and Toshiyuki Morii
Proceedings of the IV International Symposium on Weak and Electromagnetic Interactions
in Nuclei, p.536 (Osaka, June 12–16, 1995)
22. Heavy Mesons in a Potential Model Expanded in $1/m_Q$,
Takayuki Matsuki and Toshiyuki Morii

- Proceedings of International RCNP Workshop on Color Confinement and Hadrons, p.299
(Osaka, March 22–24, 1995)
23. Two-spin Asymmetry of Heavy Quarkonia Productions at RHIC Energy,
T. Yamanishi, T. Morii and S. Tanaka
Proceedings of the 10th Lake Louise Winter School, p.532 (Lake Louise, Alberta, Feb.
19–25, 1995)
 24. The Behavior of Polarized Gluons in the Proton and High Energy Scatterings,
T. Morii and T. Yamanishi
Proceedings of the VI Workshop on High Energy Spin Physics, p.79 (Protvino, Sept. 18–
23, 1995)
 25. Δs content in parity violating ep scattering,
T. Yamanishi, T. Morii and Alexander I. Titov
Proceedings of the VI Workshop on High Energy Spin Physics, p.88 (Protvino, Sept. 18–
23, 1995)
 26. Polarized strange quarks in charged current reactions,
T. Morii, A.I. Titov and T. Yamanishi
Proceedings of the XII International Seminar on High Energy Physics Problems, p.216
(Dubna, Sept. 2–7, 1996)
 27. Polarized gluons in $pp \rightarrow \chi_J X$ at RHIC,
T. Morii and T. Yamanishi
Proceedings of the 12th International Symposium on High Energy Spin Physics, p.455
(Amsterdam, Sept. 10–14, 1996)
 28. Test of Δg in spin correlations between target protons and produced Λ_c^+ at COMPASS
experiment,
T. Yamanishi and T. Morii
Proceedings of the 12th International Symposium on High Energy Spin Physics, p.631
(Amsterdam, Sept. 10–14, 1996)
 29. Charmed Baryon Productions as Probing Polarized Gluon Distributions,
T. Yamanishi and T. Morii
Proceedings of the Circum-Pan-Pacific Workshop on High Energy Spin Physics, pp.18–22
(Kobe. Oct 2–4, 1996)
 30. Polarized Structure Functions of Nucleons with Quark Model in the Resonance Region,
Dong Yu-Bing, T. Morii and T. Yamanishi
Proceedings of the Circum-Pan-Pacific Workshop on High Energy Spin Physics, pp.44–58
(Kobe, Oct. 2–4, 1996)
 31. Heavy Quark Productions with Spin,
Toshiyuki Morii

- Proceedings of the International School-Seminar–Structure of Particles and Nuclei and Their Interactions–, pp.9–15 (Tashkent, Oct. 6–13, 1997)
32. ψ' Production at HERA- \vec{N} as a Test of Color-octet Mechanism,
T. Yamanishi, T. Morii, D. Roy, K. Sudoh, Z. -X. Sun and S. Tanaka
Proceedings of 'Deep Inelastic Scattering off Polarized Targets: Theory Meets Experiment',
Germany, 1–5 Sept. (1997), ed. J. Blümlein, A. De Roeck, T. Gehrmann and W.-D. Nowak
 33. Spectroscopy of Heavy Mesons Expanded in $1/m_Q$,
T. Matsuki and T. Morii
Aust. J. Phys, **50**, 163–72 (1997) (refereed paper)
 34. A NEW PARAMETRIZATION OF POLARIZED PARTON DISTRIBUTION
FUNCTIONS,
Toshiyuki Morii
Proceedings of the 13th International Symposium on High Energy Spin Physics, p.316
(Protvino, Sept. 8–12, 1998)
 35. Review from theoretician,
T. Morii
Nuclear Instruments and Methods in Physics Research, **A402**, 488–491 (1998) (refereed
paper)
 36. Hard processes with spin-dependent parton distributions,
T. Yamanishi, T. Morii, D. Roy, K. Sudoh and S. Tanaka
Nuclear Instruments and Methods in Physics Research, **A402**, 291–293 (1998) (refereed
paper)
 37. Color-octet Mechanism in Low- p_T ψ' -productions,
T. Morii, D. Roy, K. Sudoh, Z. -X. Sun, S. Tanaka and T. Yamanishi
Nuclear Physics, **A629**, 282c–285c (1998) (refereed paper)
 38. Diffractive Λ_c^+ Productions in Polarized pp Reactions,
N.I. Kochelev, T. Morii and S. Oyama
Proceedings of the Workshop on Polarized Protons at High Energies–Accelerator
Challenges and Physics Oppertunities, pp.374–377 (DESY, May 17–20, 1999)
 39. ψ' -Photoproduction in Polarized $\vec{\gamma}\vec{p}$ Reaction,
T. Morii and K. Sudoh
Proceedings of the Workshop on Polarized Protons at High Energies–Accelerator
Challenges and Physics Oppertunities, pp.370–373 (DESY, May 17–20,1999)
 40. Polarized Parton Distribution Functions from the A_1 Asymmetry Data,
Y. Goto, N. Hayashi, M. Hirai, H. Horikawa, S. Kumano, M. Miyama, T. Morii, N. Saito,
T. -A. Shibata, E. Taniguchi and T. Yamanishi
Proceedings of the workshop on Polarized Protons at High Energies–Accelerator
Challenges and Physics Oppertunities, pp.320–323 (DESY, May 17–20, 1999)

41. Is the polarized light flavor sea-quark asymmetric?,
T. Morii and T. Yamanishi
Proceedings of the Circum-Pan-Pacific RIKEN Symposium on High Energy Spin Physics,
pp.118–121 (RIKEN, Nov. 3–6, 1999)
RIKEN, Review No.28 (May, 2000): Focused on High Energy Spin Physics
42. CAN A POMERON BE REALLY “SUPERSOFT”?,
D. Roy, T. Morii and A. Titov
Proceedings of the International Workshop, Symmetry and Spin, (Prague, Sept. 5–12,
1999) Czechoslovak Journal of Physics, **50**, S1, 131–136 (2000) (refereed paper)
43. Polarized gluon distributions from high- p_T pair hadron productions in polarized deep in-
elastic scattering,
T. Yamanishi, Yu-bing Dong and T. Morii
Proceedings of the 14th International Spin Physics Symposium, pp.433–436, (Osaka, Japan,
Oct. 16-21 (2000)).
44. Probing nucleon strangeness in ϕ electroproduction,
Y. Oh, A. I. Titov, S. N. Yang and T. Morii
Nucl. Phys. **A684**, 354c–356c (2001) (refereed paper)
45. Semi-inclusive hadron pair production and polarized gluons in the proton,
Y. B. Dong, T. Morii and T. Yamanishi
Int. J. Mod. Phys. **A18**, No. 8, 1273–1280 (2003) (refereed paper)
46. Charmed hadron production at RHIC,
K. Ohkuma, T. Morii and S. Oyama
Int. J. Mod. Phys. **A18**, No. 8, 1481–1484 (2003) (refereed paper)
47. Charmed hadron production in neutrino reactions and polarized s -quark distribution,
Kazutaka Sudoh and Toshiyuki Morii
Nuclear Instruments and Methods in Physics Research, **A503**, 262–264 (2003) (refereed
paper)
48. Charmed Hadron Production in Polarized pp Reactions as a Probe of Polarized Gluons in
the Proton,
Toshiyuki Morii and Kazumasa Ohkuma
Nucl. Phys. **A721**, 372c–375c (2003) (refereed paper)
49. DIS charged current $\Lambda_c^+/\overline{\Lambda}_c^+$ Production as a Probe of Δs and Δg ,
K. Mawatari, T. Morii, S. Oyama and K. Sudoh
Nucl. Phys. **A721**, 380c–383c (2003) (refereed paper)
50. Charmed hadron production via charged current DIS as a probe of Δs and Δg ,
K. Mawatari and T. Morii
Proceedings of X-th Workshop on High Energy Spin Physics (Dubna, Sept. 16-20, 2003)
pp.136–139

研究会報告、総説、など

1. One Fireball Model with Double Regge Pole Exchange による加速器領域の多重発生の解析,
森井 俊行
素粒子論研究 **44**, 131-146 (1971)
2. $N\bar{N}$ Annihilation Channel の分析と ABFST Model,
宮村 修、森井 俊行、佐藤 亮代、四柳 一郎
素粒子論研究 **44**, 433-448 (1972)
3. 多重発生現象における Peripheral Property,
森井 俊行
「Multiple Production」研究会報告: 素粒子論研究 **45**, C29-C32 (1972)
4. Exclusive Reaction の機構について,
森井 俊行
「多重発生現象の粒子発生機構」研究会報告: 素粒子論研究 **47**, D16-D19 (1973)
5. Perturbative Structure of Reaction Mechanism in Multi-Particle Production Processes,
(Doctor Thesis, Osaka Univ., 1974)
Toshiyuki Morii
6. 200 および 300 GeV/c 陽子・原子核反応,
森井 俊行、藤岡 伍郎、小早川 恵三、楠本 修 他 13 名
「乾板による加速器領域の素粒子相互作用」研究会報告: CKJ-報告-12 (1974)
7. 多重発生機構に対する Perturbative Picture,
森井 俊行
「真空子の多重発生の構造」研究会報告: 素粒子論研究 **49**, D14-D18 (1974)
8. Gauge Theory と Weinberg-Salam Model について,
森井 俊行
宇宙線研究 **22**, 346-375 (1978)
9. 高エネルギーハドロン原子核反応におけるカスケイドモデル,
平林 繁明、小早川 恵三、森井 俊行
「高エネルギー多重発生」研究会報告: 素粒子論研究 **58**, C30-C37 (1978)
10. Lepton-Hadron 反応における Jet 生成とその時空構造,
北添 徹郎、森井 俊行
Proc. of the Meeting on Multi-Particle Production Sept. 6-7 (KEK) pp.92-94 (1979)
11. Jet 生成機構,
北添 徹郎、森井 俊行
「ハドロン原子核衝突と多重発生の時空構造」研究発表報告: 素粒子論研究 **61**, 719-726 (1980)

12. Baryon Spectroscopy,
北添 徹郎、森井 俊行、森下 淳也、岡 真、柘植 昌保
「原子核におけるクォーク自由度」研究会報告: 素粒子論研究 **68**, C22–C23 (1983)
13. $Q\bar{Q}g$ ハイブリッドメソンの構造とスペクトラム,
和田 光俊、北添 徹郎、川口 正昭、鎗木 誠、森井 俊行、岡 真
第11回小数多体系国際会議に関する研究会報告: 素粒子論研究 **8**, E88–E91 (1984)
14. $p\bar{p}$ Collider における Toponium 生成,
稲澤 弘志、北添 徹郎、森井 俊行、Walter W. Wada
「量子色力学と高エネルギー現象論」研究会報告: 素粒子論研究 **69**, B34–B36 (1984)
15. ハドロン構造とパートン primordial k_T ,
稲澤 弘志、小早川 恵三、森井 俊行
「量子色力学と高エネルギー現象論」研究会報告: 素粒子論研究 **69**, B56–B57 (1984)
16. $Spp\bar{S}$ コライダー実験での新現象と新複合ボーズ粒子の可能性,
稲澤 弘志、森井 俊行、北添 徹郎、渡辺 正
「高エネルギーにおける新現象」研究会報告: 素粒子論研究 **72**, A23–A24 (1985)
17. Higgs-Hyperfermion interaction による anomalous P_T の解釈,
稲澤 弘志、森井 俊行、北添 徹郎、田中 俊一、渡辺 正
TeV 領域の Physics(Standard model を超えて)」研究会報告: 素粒子論研究 **73**, D24–D25 (1986)
18. P State Levels and Extra Potentials of the Baryons,
M. Tsuge, T. Morii and J. Morishita
Abstract Book of XI Int. Conf. on Particle and Nuclei, April 20-24 (Kyoto) pp.20–21 (1987)
19. Effective Semirelativistic Model of Atomlike Mesons $Q\bar{q}$,
M. Kawaguchi, T. Morii and J. Morishita
「素粒子論における現象論の展開」研究報告: 素粒子論研究 **81**, E48–E54 (1990)
20. Superheavy Toponium Production at e^+e^- Colliders,
H. Inazawa and T. Morii
「素粒子論における現象論の展開」研究会報告: 素粒子論研究 **83**, C79–C84 (1991)
21. Quark and Gluon Contents in the Polarized Structure Functions,
K. Kobayakawa, T. Morii, S. Tanaka and T. Yamanishi
「Chiral Soliton 模型による核子、核子系の研究」研究会報告: 素粒子論研究 **83**, E190–E194 (1991)
22. B, D 中間子の semileptonic decay における $1/m_Q$ correction の効果,
谷本 盛光、森井 俊行、伊藤 稔明
「B, D, K 中間子物理とフォーク混合、CP の破れ」研究会報告: 素粒子論研究 **85**, A76–A82 (1992)

23. Semileptonic Decays of Heavy Flavored Hadrons in the Heavy Quark Effective Theory,
伊藤 稔明、森井 俊行、谷本 盛光
「素粒子論における現象論の展開」研究会報告: 素粒子論研究 **85**, D53–D59 (1992)
24. スピン依存パートン分布関数と陽子-陽子反応におけるスピン非対象 $A_{LL}^{\pi^0}$ と A_{LL}^{γ} ,
小早川 恵三、森井 俊行、山西 輝也
「素粒子論における現象論の展開」研究会報告: 素粒子論研究 **85**, D76–D80 (1992)
25. 重クォーク有効理論に基づく B · D · K 中間子の分光学的解析,
伊藤 稔明、森井 俊行、谷本 盛光
「B, D, K 中間子物理とクォーク混合、CP の破れ」研究会報告: 素粒子論研究 **86**, B87–B89 (1992)
26. Two-spin asymmetry in $\bar{p}p$,
小早川 恵三、森井 俊行、山西 輝也
「素粒子論における現象論の展開」研究会報告: 素粒子論研究 **87**, C97–C100 (1993)
27. Stoponium production at hadron colliders,
H. Inazawa and T. Morii
「B, D, K 中間子物理とクォーク混合、CP の破れ」研究会報告: 素粒子論研究 **88**, A79–A83 (1993)
28. Polarized Gluons in the Nucleon,
T. Morii, S. Tanaka and T. Yamanishi
「GeV スケールで探る物理」研究会報告 (富山、5/26-28, 1995): 素粒子論研究 **91**, F88–F96 (1995)
29. Heavy Flavored Mesons with $1/m_Q$ Expansion,
Takayuki Matsuki and Toshiyuki Morii
「フレーバー物理における新しい物理」研究会報告: 素粒子論研究 **92**, B106–B109 (1995)
30. Δs in the proton and $e\bar{p}$ scatterings,
T. Morii, Alexander I. Titov and T. Yamanishi
「素粒子物理とその将来像」研究会報告 (京大基研, Jan. 16-19, 1996): 素粒子論研究 **95** 巻 1 号 pp. A29–A31 (1997)
31. How to extract Δg from semi-inclusive Λ_c^+ productions,
T. Morii, Alexander I. Titov and T. Yamanishi
「QCD とハドロン物理の新展開」研究会報告 (京大基研, Jan. 22–24, 1996): 素粒子論研究 **94**, F62–F64 (1997)
32. Low- p_T ψ' Production due to Color-Octet Mechanism,
T. Morii, D. Roy, K. Sudoh, Z.-X. Sun, S. Tanaka and T. Yamanishi
“13th Sanyo Summer Institute”(平成9年7月31日–8月2日) 報告: 素粒子論研究 **95**, No.6, F6–F8 (1997)

33. ψ' analysis as a test of 'supersoft' Pomeron model,
Dayeeta Roy and Toshiyuki Morii
神戸大学発達科学部研究紀要 Vol.9, No.1, 77-83 (2001)

Annual reports

1. Δs and Δg in proton at future collider,
T. Morii, S. Tanaka, Alexander I. Titov and T. Yamanishi
RCNP Annal Report, p.99 (1995)
2. ψ' -productions as a test of color-octet mechanism,
T. Morii, D. Roy, K. Sudoh, Z. -X. Sun, S. Tanaka, and T. Yamanishi
RCNP Annal Report, p.81 (1996)
3. Test of Δg in Spin Correlations between Target Protons and Produced Λ_c^+ at COMPASS Experiment,
T. Yamanishi and T. Morii
RIKEN Accel Prog. Rep. **30**, 32 (1997)
4. Study of Polarized Parton Distribution Functions in the Nucleon,
Y. Goto, N. Hayashi, M. Hirai, S. Kumano, M. Miyama, T. Morii, N. Saito, T. Shibata and T. Yamanishi
RIKEN Accel Prog. Rep. **30**, 35 (1997)
5. The ψ' Production in Polarized pp Collisions as a Test of Color-Octet Mechanism,
T. Yamanishi, T. Morii, D. Roy, K. Sudoh, Z. Sun, and S. Tanaka
RIKEN Accel. Prog. Rep. **31**, 47 (1998)
6. Heavy Quark Physics with Spin,
Toshiyuki Morii
RIKEN Accel. Prog. Rep. **31**, 48 (1998)
7. A New Parametrization of Polarized Parton Distributions in the Nucleon,
Y. Goto, N. Hayashi, M. Hirai, H. Horikawa, S. Kumano, M. Miyama, T. Morii, N. Saito, T. Shibata, E. Taniguchi and T. Yamanishi
RIKEN Accel Prog. Rep. **32**, 37 (1999)
8. A New Parameterization of Polarized Parton Distribution Functions,
Y. Goto, N. Hayashi, M. Hirai, H. Horikawa, S. Kumano, M. Miyama,
T. Morii, N. Saito, T-A. Shibata, E. Taniguchi, and T. Yamanishi
RIKEN Accel. Prog. Rep. **33**, 33 (2000)
9. Large p_T Λ_c^+ Production in Polarized pp Scattering,
K. Ohkuma, K. Sudoh and T. Morii
RIKEN Accel Prog. Rep. **33**, 34 (2000)

10. Λ_c^+ Productions in Polarized ep Reaction and Polarized Gluons in the Proton,
N. I. Kochelev, T. Morii and S. Oyama
RIKEN Accel. Prog. Rep. **33**, 35 (2000)
11. Behavior of Polarized Light Sea-quarks in a Nucleon,
T. Morii and T. Yamanishi
RIKEN Accel. Prog. Rep. **33**, 36 (2000)
12. Color-octet Contribution to the Photoproduction of ψ' ,
K. Sudoh and T. Morii
RIKEN Accel. Prog. Rep. **33**, 37 (2000)