

7.1 PUBLICATIONS

JOURNALS

Experimental Researches

1. *S. Adler, M.S. Atiya, I.H. Chiang, M.V. Diwan, J.S. Frank, J.S. Haggerty, V. Jain, S.H. Kettell, T.F. Kycia, K.K. Li, L.S. Littenberg, C. Ng, R.C. Strand, C. Witzig, M. Kazumori, T.K. Komatsubara, M. Kuriki, N. Muramatsu, A. Otomo, S. Sugimoto, T. Inagaki, S. Kabe, M. Kobayashi, Y. Kuno, T. Sato, T. Shinkawa, Y. Yoshimura, Y. Kishi and T. Nakano, et al.*
Phys. Rev. Lett. **84** (2000) 3768-3770
Further Search for the Decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$
2. *S. Adler, M.S. Atiya, I.H. Chiang, M.V. Diwan, J.S. Frank, J.S. Haggerty, S.H. Kettell, T.F. Kycia, K.K. Li, L.S. Littenberg, A. Sambamurti, A. Stevens, R.C. Strand, C. Witzig, T.K. Komatsubara, M. Kuriki, N. Muramatsu, S. Sugimoto, T. Inagaki, S. Kabe, M. Kobayashi, Y. Kuno, T. Sato, T. Shinkawa, Y. Yoshimura, Y. Kishi, T. Nakano, et al.*
Phys. Rev. Lett. **85** (2000) 2256-2259
Measurement of Structure Dependent $K^+ \rightarrow \mu^+ \nu_\mu \gamma$ Decay
3. *S. Adler, M. Aoki, M. Ardebili, M.S. Atiya, P.C. Bergbusch, E.W. Blackmore, D.A. Bryman, I.H. Chiang, M.R. Convery, M.V. Diwan, J.S. Frank, J.S. Haggerty, T. Inagaki, M.M. Ito, S. Kabe, S.H. Kettell, Y. Kishi, P. Kitching, M. Kobayashi, T.K. Komatsubara, A. Konaka, Y. Kuno, M. Kuriki, T.F. Kycia, K.K. Li, L.S. Littenberg, J.A. Macdonald, R.A. McPherson, P.D. Meyers, J. Mildenerger, N. Muramatsu, T. Nakano, et al.*
Phys. Rev. Lett. **85** (2000) 4856-4859
Measurement of Direct Photon Emission in $K^+ \rightarrow \pi^+ \pi^0 \gamma$ Decay
4. *S. Adler, M. Aoki, M. Ardebili, M.S. Atiya, P.C. Bergbusch, E.W. Blackmore, D.A. Bryman, I.H. Chiang, M.R. Convery, M.V. Diwan, J.S. Frank, J.S. Haggerty, T. Inagaki, M.M. Ito, S. Kabe, S.H. Kettell, Y. Kishi, P. Kitching, M. Kobayashi, T.K. Komatsubara, A. Konaka, Y. Kuno, M. Kuriki, T.F. Kycia, K.K. Li, L.S. Littenberg, J.A. Macdonald, R.A. McPherson, P.D. Meyers, J. Mildenerger, N. Muramatsu, T. Nakano, et al.*
Phys. Rev. **D63** (2001) 032004
Search for the Decay $K^+ \rightarrow \pi^+ \pi^0 \nu \bar{\nu}$
5. *S. Ajimura, H. Hayakawa, T. Kishimoto, H. Kohri, K. Matsuoka, S. Minami, T. Mori, K. Morikubo, E. Saji, A. Sakaguchi, Y. Shimizu, M. Sumihama, R.E. Chrien, M. May, P. Pile, A. Rusek, R. Sutter, P. Eugenio, G. Franklin, P. Khaustov, K. Paschke, B.P. Quinn, R.A. Schumacher, J. Franz, T. Fukuda, H. Noumi, H. Oota, L. Gan, L. Tang, L. Yuan, H. Tamura, J. Nakano, T. Tamagawa, K. Tanida, and R. Sawafta*
Phys. Rev. Lett. **86** (2001) 4255-4258
Observation of Spin-Orbit Splitting in Λ Single-Particle
6. *S. Ajimura, R.E. Chrien, T. Kishimoto, H. Kohri, K. Matsuoka, M. May, S. Minami, Y.S. Miyake, T. Mori, J. Nakano, H. Noumi, A. Rusek, E. Saji,*

- A. Sakaguchi, Y. Shimizu, M. Sumihama and T. Tamagawa*
Nucl. Instr. and Meth. **A459** (2001) 326-333
 ^{13}C active target for hypernuclear experiment
7. *H. Akimune, I. Daito, Y. Fujita, M. Fujiwara, M.N. Harakeh, J. Jänecke and M. Yosoi*
Phys. Rev. **C 61**, 011304R (2000) 1–4.
Direct Proton Decay from Spin-Dipole Resonance in ^{208}Bi
 8. *Y. Arimoto, N. Shimakura, K. Yonehara, T. Yamagata, and M. Tanaka*
Euro. Phys. J. **D8** (2000) 305-308
Unexpected reduction of the spin-exchange cross-section for fast $^3\text{He}^+$ ions incident on Rb atoms
 9. *Y. Arimoto, K. Yonehara, T. Yamagata, and M. Tanaka*
Nucl. Instr. Meth. **B173** (2001) 370-382
Non-uniform ^3He polarization formed by multiple collisions of a fast $^3\text{He}^+$ ion with polarized Rb vapor in a strong magnetic field
 10. *A.A. Cowley, G.F. Steyn, Y. Watanabe, T. Noro, K. Tamura, M. Kawabata, K. Hatanaka, H. Sakaguchi, H. Takeda and M. Itoh*
Phys. Rev. **C62** (2000) 064604-1-5
Inclusive $^{40}\text{Ca}(p, p'x)$ at an Incident Energy of 392 MeV
 11. *J. Doornbos, M. Aoki, E.W. Blackmore, C.J. Kost, J.A. Macdonald and T. Nakano*
Nucl. Instr. and Meth. **A444** (2000) 546-556
Optics Design and Performance of LESB3, A Two-Stage Separated 800-MeV/c Kaon Beamline
 12. *H. Ejiri*
Physics Reports **338** (2000) 265-351
Nuclear Spin Isospin Responses for Low Energy Neutrinos
 13. *H. Ejiri, J. Engel, R. Hazama, P. Krastev, N. Kudomi, and R.G.H. Robertson*
Physical Review Letters, **85** (2000) 2917-2921
Spectroscopy of Double-Beta and Inverse-Beta Decays from ^{100}Mo for Neutrinos
 14. *H. Ejiri*
Nuclear Physics **B91** (Proc. Suppl.) (2001) 255-261
Double Beta Decays and Neutrinos
 15. *Y. Fujita, B. A. Brown, H. Ejiri, K. Katori and H. Ueno*
Phys. Rev. **C62** (2000) 044314 1-9
Separation of Isoscalar, Isovector, Orbital and Spin Contributions in $M1$ transitions in Mirror Nuclei
 16. *Y. Fujita, H. Fujita, G. P. A. Berg, K. Harada, K. Hatanaka, M. Kawabata, T. Noro, H. Sakaguchi, T. Shinada, Y. Shimbara, T. Taki, H. Ueno and M. Yosoi*
J. Mass Spectrom. Soc. Jpn. **48(5)** (2000) 306-311
Ion-Optical Matching Conditions Realizing Good Resolutions in Using a Magnetic
 17. *M. Fujiwara, H. Akimune, A. M. van den Berg, M. Cribier, I. Daito, H. Ejiri, H. Fujimura, Y. Fujita, C. D. Goodman, K. Hara, M. N. Harakeh, F. Ihara, T. Ishikawa, J. Jänecke, T. Kawabata, R. S. Raghavan, K. Schwarz, M. Tanaka, Y. Yamanaka,*

- M. Yosoi and R. G. T. Zegers*
 Phys. Rev. Lett. **85** (2000) 4442–4445
 Gamow-Teller Strengths of the Inverse-Beta Transition $^{176}\text{Yb} \rightarrow ^{176}\text{Lu}$ for Spectroscopy
 of Proton-Proton and other sub-MeV Solar Neutrinos
18. *M. Fujiwara*
 Nuclear Physics News **11** (2001) 28–32.
 Photo-Nuclear Reactions at SPring-8
 19. *K. Hatanaka, S. Ninomiya, M. Nomachi and H. Ejiri*
 Nuclear Physics **A663&664** (2000) 1087c–1090c
 Design study of a 10 GeV electron accumulator ring for the PEARL project at RCNP
 20. *A. Ichikawa, J. K. Ahn, H. Akikawa, S. Aoki, K. Arai, S. Y. Bahk, K. M. Baik, B. Bassalleck, J. H. Chung, M. S. Chung, K. Hoshino, M. Ieiri, K. Imai, Y. H. Iwata, Y. S. Iwata, H. Kanda, M. Kaneko, T. Kawai, C. O. Kim, J. Y. Kim, S. J. Kim, S. H. Kim, Y. Kondo, T. Kouketsu, Y. L. Lee, J. W. C. McNabb, M. Mitsuhashi, Y. Nagase, C. Nagoshi, K. Nakazawa, H. Noumi, S. Ogawa, H. Okabe, K. Oyama, H. M. Park, I. G. Park, J. Parker, Y. S. Ra, J. T. Rhee, A. Rusek, H. Shibuya, K. S. Sim, P. K. Saha, D. Seki, M. Sekimoto, J. S. Song, H. Takahashi, T. Takahashi, F. Takeuchi, H. Tanaka, K. Tanida, J. Tojo, H. Torii, S. Torikai, N. Ushida, K. Yamamoto, N. Yasuda, J. T. Yang, C. J. Yoon, C. S. Yoon, M. Yosoi, T. Yoshida and L. Zhu*
 Phys. Lett. **B500** (2001) 37–46
 Production of Twin Λ -hypernuclei from Ξ^- Hyperon Capture at Rest
 21. *T. Kawabata, H. Akimune, H. Fujimura, H. Fujita, Y. Fujita, M. Fujiwara, K. Hara, K. Hatanaka, K. Hosono, T. Ishikawa, M. Itoh, J. Kamiya, M. Nakamura, T. Noro, E. Obayashi, H. Sakaguchi, Y. Shimbara, H. Takeda, T. Taki, A. Tamii, H. Toyokawa, N. Tsukahara, M. Uchida, H. Ueno, T. Wakasa, K. Yamasaki, Y. Yasuda, H.P. Yoshida and M. Yosoi*
 Nucl. Instr. and Meth. **A 459** (2001) 171–176
 Thin Ice Target for $^{16}\text{O}(p, p')$ Experiment
 22. *P. Khaustov, D. E. Alburger, P. D. Barnes, B. Bassalleck, A. R. Berdoz, A. Biglan, T. Bürger, D. S. Carman, R. E. Chrien, C. A. Davis, H. Fischer, G. B. Franklin, J. Franz, L. Gan, A. Ichikawa, T. Iijima, K. Imai, Y. Kondo, P. Koran, M. Landry, L. Lee, J. Lowe, R. Magahiz, M. May, R. McCrady, C. A. Meyer, F. Merrill, S. A. Page, K. Paschke, P. H. Pile, B. P. Quinn, W. D. Ramsay, A. Rusek, R. Sawafuta, H. Schummitt, R. A. Schumacher, R. W. Stotzer, R. Sutter, F. Takeuchi, W. T. H. van Oers, K. Yamamoto, M. Yosoi and V. J. Zeps (The AGS E885 Collaboration)*
 Phys. Rev. **C61** (2000) 027601–1–4
 Search for Double- Λ Hypernuclei Formation via $(\Xi^-, ^{12}\text{C})_{\text{atom}} \rightarrow ^{12}_{\Lambda\Lambda}\text{B} + n$
 23. *P. Khaustov, D. E. Alburger, P. D. Barnes, B. Bassalleck, A. R. Berdoz, A. Biglan, T. Bürger, D. S. Carman, R. E. Chrien, C. A. Davis, H. Fischer, G. B. Franklin, J. Franz, L. Gan, A. Ichikawa, T. Iijima, K. Imai, Y. Kondo, P. Koran, M. Landry, L. Lee, J. Lowe, R. Magahiz, M. May, R. McCrady, C. A. Meyer, F. Merrill, T. Motoba, S. A. Page, K. Paschke, P. H. Pile, B. P. Quinn, W. D. Ramsay, A. Rusek, R. Sawafuta, H. Schummitt, R. A. Schumacher, R. W. Stotzer, R. Sutter, F. Takeuchi,*

- W. T. H. van Oers, K. Yamamoto, Y. Yamamoto, M. Yosoi and V. J. Zeps (*The AGS E885 Collaboration*)
 Phys. Rev. **C61** (2000) 054603-1-7
 Evidence of Ξ Hypernuclear Production in the $^{12}\text{C}(K^-, K^+)_{\Xi}^{12}\text{Be}$ Reaction
24. N. Matsuoka, Y. Yokota, K. Nagayama, Y. Maeda, K. Tamura, M. Yosoi and J. K. Ahn
 Nucl. Instr. and Meth. **A455** (2000) 283 - 293
 Performance of a Cylindrical Drift Chamber for multi-GeV Photo-induced Experiments
25. H.K.T. van der Molen, H. Akimune, A.M. van den Berg, I. Daito,
 H. Fujimura, Y. Fujita, M. Fujiwara, M.N. Harakeh, F. Ihara,
 T. Inomata, K. Ishibashi, J. Jänecke, N. Kalantar-Nayestanaki,
 H. Laurent, I. Lhenry, T.W. O'Donnell, V.A. Rodin, A. Tamii,
 H. Toyokawai, M.H. Urin, H. Yoshida and M. Yosoi
 Phys. Lett. B **502** (2001) 1-8
 Structure of the $11/2^-$ analog state in ^{91}Nb populated by the $^{90}\text{Zr}(\alpha, t)$ reaction
26. S. Nakayama, T. Yamagata, H. Akimune, I. Daito, H. Fujimura, Y. Fujita,
 M. Fujiwara, K. Fushimi, T. Inomata, H. Kohri, N. Koori, K. Takahisa,
 A. Tamii, M. Tanaka and H. Toyokawa
 Phys. Rev. Lett. **85** (2000) 262-265
 Soft Dipole Resonance in the Neutron-Skin Nucleus ^6He
27. K. Schwarz, C. Samanta, M. Fujiwara, H. Rebel, R. De Leo, N. Matsuoka, H. Utsunomiya, H. Akimune, I. Daito, H. Fujimura, F. Ihara, K. Ishibashi, Y. Maeda, T. Yamanaka, H. Yoshida, A. Okihana, T. Yoshimura, P.K.J. van Aarle, W.A.T. Uijen, M. Ito, and Y. Sakuragi
 Eur. Phys. J. A **7** (2000) 367-375.
 Reaction Mechanism of ^6Li Scattering at 600 MeV
28. H.M. Sen Gupta, Syafarudin, S. Aoki, F. Aramaki, M. Matoba, Y. Uozumi, G. Wakabayashi, T. Sakae, N. Koori, T. Maki, M. Nakano, Y. Fujita, M. Fujiwara, H. Ikegami, I. Katayama, S. Morinobu, and T. Yamazaki
 Phys. Rev. **C63** 017601 (2001) (4 pages).
 Isobaric analog states observed in the $^{58}\text{Ni}(p, d)^{57}\text{Ni}$ reaction with 65 MeV polarized protons
29. H. Tamura, D. Abe, S. Ajimura, H. Akikawa, K. Araki, H.C. Bhang, R.E. Chrien, T. Endo, P. Eugenio, G.B. Franklin, Y. Fujii, T. Fukuda, L. Gan, O. Hashimoto, H. Hotchi, K. Imai, Y. Kakiguchi, P. Khaustov, J.H. Kim, Y.D. Kim, H. Kohri, M. May, T. Miyoshi, T. Murakami, T. Nagae, J. Nakano, H. Noumi, H. Ota, K. Ozawa, P.H. Pile, B.P. Quinn, A. Rusek, T. Saito, J. Sasao, Y. Sato, S. Satoh, R.I. Sawafuta, R.A. Schumacher, M. Sekimoto, T. Takahashi, T. Tamagawa, L. Tang, K. Tanida, H.H. Xia, L. Yuan, S.H. Zhou, L.H. Zhu, and X.F. Zhu
 Few Body Syst. Suppl. **12** (2000) 342-346
 High-Resolution Gamma-Spectroscopy of $^7_\Lambda\text{Li}$ and $^9_\Lambda\text{Be}$
30. K. Yamamoto, D. E. Alburger, P. D. Barnes, B. Bassalleck, A. R. Berdoz, A. Biglan, T. Bürger, D. S. Carman, R. E. Chrien, C. A. Davis, H. Fischer, G. B. Franklin, J. Franz, L. Gan, A. Ichikawa, T. Iijima, K. Imai, P. Khaustov, Y. Kondo, P. Koran,

- M. Landry, L. Lee, J. Lowe, R. Magahiz, M. May, R. McCrady, C. A. Meyer, F. Merrill, S. A. Page, K. Paschke, P. H. Pile, B. P. Quinn, W. D. Ramsay, A. Rusek, R. Sawafte, H. Schumitt, R. A. Schumacher, R. W. Stotzer, R. Sutter, F. Takeuchi, W. T. H. van Oers, M. Yosoï and V. J. Zeps (E885 Collaboration)*
 Phys. Lett. **B478** (2000) 401–407
 Search for Double- Λ Hypernuclei and H -dibaryon in the (K^-, K^+) Reaction on ^{12}C
31. *M. Yoshimura, M. Nakamura, H. Akimune, I. Daito, T. Inomata, M. Itoh, M. Kawabata, T. Noro, H. Sakaguchi, H. Takeda, A. Tamii, K. Yonehara, H.P. Yoshida and M. Yosoï*
 Phys. Rev. **C 63** (2001) 034618-01–11
 Elastic Proton Scattering from ^4He at 297 MeV
32. *R.G.T. Zegers, A.M. van den Berg, S. Brandenburg, F.R.R. Fleurot, V.M. Hannen, M.N. Harakeh, K. van der Schaarf, S. Y. van der Werf, H. W. Wilschut, J. Guillot, H. Laurent, A. Willis, and M. Fujiwara*
 Phys. Rev. Lett. **84** (2000) 3779–3782.
 Search for isovector monopole strength via the $\text{Pb}(^3\text{He}, \text{tp})$ reaction
33. *R.G.T. Zegers, A.M. van den Berg, S. Brandenburg, M. Fujiwara, J. Guillot, M.N. Harakeh, H. Laurent, S.Y. van der Werf, A. Willis, and H.W. Wilschut*
 Phys. Rev. **C63** (2001) 034613
 Excitation of the isovector giant monopole resonances via the $^{nat}\text{Pb}(^3\text{He}, \text{tp})$ reaction

Theoretical Researches

1. *O. Civitarese, F. Montani, M. Reboiro and H. Toki*
 Phys. Rev. **C61** (2000) 064306
 Spontaneous symmetry breaking and the energy of nuclear isobaric analog states.
2. *V. Dmitrašinović*
 Phys. Rev. **D 62** (2000) 096010(8)
 Axial baryon number nonconserving antisymmetric tensor four-fermion interaction and its phenomenological consequences
3. *V. Dmitrašinović*
 Nucl. Phys. **A 686** (2001) 377-390
 't Hooft interaction, scalar mesons and the flavour-singlet axial coupling constant in an effective chiral field theory
4. *V. Dmitrašinović*
 Phys. Lett. **B 499** (2001) 135-140
 Cubic Casimir operator of $\text{SU}_C(3)$ and confinement in the nonrelativistic quark model
5. *V. Dmitrašinović*
 J. Math. Phys. **42** (2001) 991-995
 Three-quark exchange operators, crossing matrices and Fierz transformations in $\text{SU}(2)$ and $\text{SU}(3)$

6. *D. Ebert, K.G. Klimenko and H. Toki*
 Phys. Rev. **D64** (2001) 014038
 Chromomagnetic catalysis of color superconductivity in a (2+1)- dimensional NJL model.
7. *D. Ebert, R.N. Faustov, V.O. Galkin and H. Toki*
 Phys. Lett. **B495** (2000) 309; hep-ph/0009308.
 Rare radiative B decays to orbitally excited $K^{**}(1430)$ meson
8. *M. Fukushima, E.M. Ilgenfritz and H. Toki*
 Phys. Rev. **D64** (2001) 034503
 Abelian monopole and center vortex views at the multiinstanton gas
9. *M. Fukushima, H. Suganuma and H. Toki*
 Nucl. Phys. Proc. Suppl. **83** (2000) 458-460
 Quark confinement and extended monopole clustering in the multi-instanton system
10. *V. Gogokhia, H. Toki, T. Sakai and G. Kluge*
 Int. J. Mod. Phys. **A15** (2000) 45-64
 Chiral QCD vacuum energy density in the zero modes enhancement quantum model
11. *S. Hirenzaki, T. Hatsuda, K. Kume, T. Kunihiro, H. Nagahiro, Y. Okumura, E. Oset, A. Ramos, H. Toki and Y. Umemoto*
 Nucl. Phys. **A663** (2000) 553-556
 Physics of mesic atoms and mesic nuclei structure and formation
12. *S. Hirenzaki, Y. Okumura, H. Toki, E. Oset and A. Ramos*
 Phys. Rev. **C61** (2000) 055205
 Chiral unitary model for the kaonic atom.
13. *S. Hirenzaki and H. Toki*
 Nucl. Phys. **A670** (2000) 194-197
 Structure and formation of deeply bound pionic atoms.
14. *A. Hosaka, M. Takayama and H. Toki*
 Nucl. Phys. **A678** (2000) 147-174
 Electromagnetic transitions of excited baryons in a deformed oscillator quark model
15. *M. Kimura, T. Miyakawa, A. Suzuki, M. Takayama K. Tanaka and A. Hosaka*
 Phys. Rev. **C62** (2000) 015206
 Nature of Lambda(1405)
16. *Y. Koma, and H. Toki*
 Phys. Rev. **D62** (2000) 054027, hep-ph/0004177
 Weyl invariant formulation of flux-tube solution in the dual Ginzburg-Landau theory
17. *Y. Koma, E.-M. Ilgenfritz, H. Toki and T. Suzuki*
 Phys. Rev. **D64** (2001) 011501, hep-ph/0103162
 Casimir scaling in a dual superconducting scenario of confinement
18. *Y. Koma, E.-M. Ilgenfritz, T. Suzuki and H. Toki*
 Phys. Rev. **D64** (2001) 014015, hep-ph/0011165
 Weyl symmetric representation of hadronic flux tubes in the dual Ginzburg-Landau theory

19. *N. Nakajima, K. Suzuki, H. Toki and K. Kubo*
Nucl. Phys. **A663** (2000) 643-646
Analyzing powers in inclusive pion production at high-energy and nucleon spin structure.
20. *E. Oset, H. Toki, M. Mizobe and T.T. Takahashi*
Prog. Theor. Phys. **103** (2000) 351-365
Sigma exchange in the NN interaction within the chiral unitary approach
21. *A. Ramos, S. Hirenzaki, S.S. Kamalov, T.T.S. Kuo, Y. Okumura, E. Oset, A. Polls, H. Toki and L. Tolos*
Nucl. Phys. **A691** (2001) 258-267
Anti-Kaons in nuclei and dense nuclear matter
22. *Z. Ren and H. Toki*
Prog. Theor. Phys. **104** (2000) 595-601
Detailed study of the ground state properties of the newly found nuclei ^{48}Ni in relativistic mean-field theory
23. *D. Roy, T. Morii, H. Toki and A.I. Titov*
Prog. Theor. Phys. **103** (2000) 747-753
Is there window for a supersoft pomeron in J/ψ photoproduction at low energy?
24. *T. Sakai, K. Kusaka and H. Toki*
Nucl. Phys. **A663** (2000) 643-646
Bethe-salpeter approach for mesons within the dual Ginzburg-Landau theory
25. *T. Sakai, K. Shimizu, and K. Yazaki*
Prog. Theor. Phys. Supplement. **137** (2000) 121-145
 H Dibaryon
26. *A. Sugita*
Ann. Phys. **288** (2001) 277-324
Semiclassical Trace Formulas in Terms of Phase Space Path Integrals
27. *M. Takayama, A. Hosaka and H. Toki*
Nucl. Phys. **A663** (2000) 695-698
Systematics of baryon masses and deformed oscillator quark model.
28. *H. Toki*
Prog. Part. Nucl. Phys. **44** 401-412 (2000)
Quark nuclear physics at SPring-8
29. *H. Toki and H. Suganuma*
Prog. in Part. Nucl. Phys. **45** (2000) 397-472
Dual Ginzburg-Landau Theory for Confinement and Chiral Symmetry Breaking
30. *H. Toki, H. Suganuma and M. Fukushima*
Nucl. Phys. **A 680** (2000) 10-16
The Mechanism of confinement and chiral symmetry breaking in quark nuclear physics
31. *Y. Umemoto, S. Hirenzaki, K. Kume and H. Toki*
Phys. Rev. **C62** (2000) 024606
Isotope dependence of deeply bound pionic states in Sn and Pb.

32. *Y. Umemoto, S. Hirenzaki, K. Kume, H. Toki and I. Tanihata*
Nucl. Phys. **A679** (2001) 549-562
Deeply bound pionic atoms on Beta-unstable nuclei
33. *T. Watabe, M. Fukushima and H. Toki*
Phys. Rev. **D62** (2000) 054005
Role of instanton size distributions for dynamical chiral symmetry breaking

JOURNALS –In press, submitted and preprints–

Experimental Researches

1. *Y. Arimoto, N. Shimakura, T. Yamagata, K. Yonehara, and M. Tanaka*
submitted to Phys. Rev. **A** (2001)
Spin-exchange cross section for fast ^3He ion incident on Rb atom
2. *S. Nakayama, T. Yamagata, H. Akimune, I. Daito, H. Fujimura, Y. Fujita, M. Fujiwara, K. Fushimi, H. Kohri, N. Koori, K. Takahisa, A. Tamii, M. Tanaka, H. Toyokawa and M.B. Greenfield*
to be published in Phys. Rev. Lett.
Dipole excitation of α -cluster in ^6Li and ^7Li
3. *M. Suzuki, H. Toyokawa, M. Mizumaki, Y. Ohashi, N. Yagi, H. Kamitsubo, K. Kuroda, A. Gorin, I. Manouilov, A. Riazantsuev, M. Noumachi, M. Yosoi, T. Ishikawa, K. Morimoto and F. Tokanai*
Nucl. Instr. and Meth. **A** *to be published*
A YAP(Ge) Imager Operated in High Energy X-ray Region
4. *S.C. Wang, H.T. Wong and M. Fujiwara*
in print in Nucl. Instr. and Meth. **A** (2001)
Intrinsic Radioactivity in a GSO Crystal and Limits on Double Beta Decay of ^{160}Gd
5. *K. Yonehara, T. Yamagata, Y. Arimoto, T. Takeuchi and M. Tanaka*
submitted to Nucl. Instr. Meth. **A** (2000)
Relaxation mechanism of optically pumped Rb vapor of high density in strong magnetic fields

Theoretical Researches

1. *O. Kiriyaama, S. Yasui and H. Toki*
preprint, hep-ph/0105170 (2001)
Color superconductivity at finite density and temperature with flavor asymmetry