

7.1 PUBLICATIONS

JOURNALS

Experimental Researches

1. *K. Aoki, H. Sakaguchi, N. Nose-Togawa, T. Takahashi, T. Hasegawa, O. Hashimoto, T. Nagae, M. Sekimoto, A. Ohkusu, H. Bhang, H. Yu and Y. Gavrillov*
Phys. Rev. **C76** (2007) 024610-1 - 024610-13
Elastic and inelastic scattering of π^+ and π^- on ^{12}C at 995 MeV/c
2. *M. Baba, H. Okamura, M. Hagiwara, T. Itoga, S. Kamada, Y. Yahagi and E. Ibe*
Rad. Prot. Dos. **126** (2007) 13–17
Installation and application of an intense $^7\text{Li}(p, n)$ neutron source for 20–90 MeV region
3. *W.C. Chang for the LEPS collaboration*
Few Body Syst. **41**, 95-102, 2007
Photoproduction of phi mesons from protons and deuterons with linearly polarized photons at LEPS/SPring-8 experiment
4. *M. Dozono, T. Wakasa, E. Ihara, S. Asaji, K. Fujita, K. Hatanaka, T. Ishida, T. Kaneda, H. Matsubara, Y. Nagasue, T. Noro, Y. Sakemi, Y. Shimizu, H. Takeda, Y. Tameshige, A. Tamii and Y. Yamada* J. Phs. Soc. Jpn. **77** (2008) 014201
Complete set of polarization transfer observables for the $^{12}\text{C}(p, n)$ reaction at 296 MeV and 0°
5. *K. Hicks, T. Mibe, M. Sumihama, D.S. Ahn, J.K. Ahn, H. Akimune, Y. Asano, W.C. Chang, S. Daté, H. Ejiri, S. Fukui, H. Fujimura, M. Fujiwara, S. Hasegawa, A. Hosaka, T. Hotta, K. Imai, T. Ishikawa, T. Iwata, B. Juliá-Díaz, Y. Kato, H. Kawai, Z.Y. Kim, K. Kino, H. Kohri, N. Kumagai, T.-S.H. Lee, S. Makino, T. Matsuda, T. Matsumura, N. Matsuoka, M. Miyabe, Y. Miyachi, M. Morita, N. Muramatsu, T. Nakano, M. Niiyama, M. Nomachi, Y. Ohashi, T. Ooba, H. Ohkuma, D.S. Oshuev, S. Ozaki, C. Rangacharyulu, A. Sakaguchi, T. Sasaki, P.M. Shagin, Y. Shiino, A. Shimizu, H. Shimizu, Y. Sugaya, Y. Toi, H. Toyokawa, A. Wakai, C.W. Wang, S.C. Wang, K. Yonehara, T. Yorita, M. Yoshimura, M. Yosoi and R.G.T. Zegers*
Phys. Rev. **C76** (2007) 042201
Measurement of the $\gamma p \rightarrow K^+ \Lambda$ reaction at backward angles
6. *M.A. de Huu, A.M. den van Berg, N. Blasi, R.De Leo, M. Hagemann, M.N. Harakeh, J. Heyse, M. Hunyadi, S. Micheletti, H. Okamura and H.J. Wörtche*
Phys. Lett. **B649** (2007) 35–42
Experimental determination of the J^π components of the spin-dipole resonance in ^{12}B
7. *M. Janek, T. Saito, V.P. Ladygin, T. Uesaka, M. Hatano, A.Yu. Isupov, H. Kato, N.B. Ladygina, Y. Maeda, A.I. Malakhov, J. Nishikawa, T. Ohnishi, H. Okamura, S.G. Reznikov, H. Sakai, S. Sakoda, N. Sakamoto, Y. Satou, K. Sekiguchi, K. Suda, A. Tamii, N. Uchigashima, T.A. Vasiliev and K. Yako*
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Analyzing powers A_{yy} , A_{xx} , A_{xz} and A_y in the $dd \rightarrow ^2\text{He} n$ reaction at 270 MeV

8. *H. Kohri*
 SPring-8 Research Frontier 2006
 K⁺Meson Photoproduction off the Neutron at BL33LEP

9. *Y. Maeda, H. Sakai, K. Fujita, M.B. Greenfield, K. Hatanaka, M. Hatano, J. Kamiya, T. Kawabata, H. Kuboki, H. Okamura, J. Rapaport, T. Saito, Y. Sakemi, M. Sasano, K. Sekiguchi, Y. Shimizu, K. Suda, Y. Tameshige, A. Tamii, T. Wakasa, K. Yako, J. Blomgren, P. Mermod, A. Öhrn, M. Österlund, H. Witala, A. Deltuva, A.C. Fonseca, P.U. Sauer, W. Glöckle, J. Golak, H. Kamada, A. Nogga and R. Skibiński*
 Phys. Rev. **C76** (2007) 39–46
 Differential cross section and analyzing power measurements for $\vec{n}d$ elastic scattering at 248 MeV

10. *N. Muramatsu*
 SPring-8 Research Frontier 2006
 Search for the Pentaquark Baryon Associated with Photoproduction of $\Lambda(1520)$ from a Liquid Deuterium Target

11. *Y. Shimizu, K. Hatanaka, Y. Tameshige, T. Adachi, K. Fujita, H. Matsubara, H. Okamura, A. Tamii, A.P. Kobushkin, T. Kawabata, Y. Sasamoto, K. Suda, T. Uesaka, K. Itoh, Y. Sakemi, T. Wakui, M. Uchida, T. Kudoh, K. Sagara, T. Wakasa, H.P. Yoshida, Y. Shimbara, E.A. Strokovsky, S. Ishikawa and M. Tanifuji*
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 Spin correlation parameter C_{yy} of $p+^3\text{He}$ elastic backward scattering

12. *K. Suda, H. Okamura, T. Uesaka, J. Nishikawa, H. Kumasaka, R. Suzuki, H. Sakai, A. Tamii, T. Ohnishi, K. Sekiguchi, K. Yako, S. Sakoda, H. Kato, M. Hatano, Y. Maeda, T. Saito, T. Ishida, N. Sakamoto, Y. Satou, K. Hatanaka, T. Wakasa and J. Kamiya*
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 Absolute calibration of the deuteron beam polarization at intermediate energies via the $^{12}\text{C}(\vec{d}, \alpha)^{10}\text{B}^*[2^+]$ reaction

13. *M. Sumihama, J.K. Ahn, H. Akimune, Y. Asano, W.C. Chang, S. Daté, H. Ejiri, H. Fujimura, M. Fujiwara, K. Hicks, T. Hotta, K. Imai, T. Ishikawa, T. Iwata, H. Kawai, Z.Y. Kim, K. Kino, H. Kohri, N. Kumagai, S. Makino, T. Matsumura, N. Matsuoka, T. Mibe, M. Miyabe, Y. Miyachi, M. Morita, N. Muramatsu, T. Nakano, M. Niiyama, M. Nomachi, Y. Ohashi, H. Ohkuma, T. Ooba, D.S. Oshuev, C. Rangacharyulu, A. Sakaguchi, T. Sato, P.M. Shagin, Y. Shiino, H. Shimizu, Y. Sugaya, H. Toyokawa, A. Wakai, C.W. Wang, S.C. Wang, K. Yonehara, T. Yorita, M. Yosoi and R.G.T. Zegers*
 Phys. Lett. **B657** (2007) 32–37
 Backward-angle photoproduction of π^0 mesons on the proton at $E_\gamma = 1.5\text{--}2.4$ GeV

14. *M. Tanaka, Y. Takahashi, T. Shimoda, M. Yosoi, K. Takahisa and Yu.A. Plis*
 Review of Scientific Instruments **79** (2008) 02B308
 RCNP polarized ^3He ion source

15. *A.I. Titov, T. Nakano, S. Daté and Y. Ohashi*
 Phys. Rev. **C76** (2007) 048202
 Differential cross section of ϕ -meson photoproduction at threshold
16. *T. Wakasa, M. Dozono, E. Ihara, S. Asaji, K. Fujita, K. Hatanaka, M. Ichimura, T. Ishida, T. Kaneda, H. Matsubara, Y. Nagasue, T. Noro, Y. Sakemi, Y. Shimizu, H. Takeda, Y. Tameshige, A. Tamii and Y. Yamada*
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Theoretical Researches

1. *Hua-Xing Chen, Atsushi Hosaka and Shi-Lin Zhu*
 Phys. Rev. **D76** 094025 (2007)
 Light Scalar Tetraquark Mesons in the QCD Sum Rule
2. *Hua-Xing Chen, Atsushi Hosaka and Shi-Lin Zhu*
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 QCD sum rule study of the masses of light tetraquark scalar mesons
3. *Tetsuo Hyodo, Daisuke Jido and Atsushi Hosaka*
 Phys. Rev. **D75** 034002 (2007)
 Study of exotic hadrons in s-wave scatterings induced by chiral interaction in the flavor symmetric limit
4. *M. Kaskulov, H. Nagahiro, S. Hirenzaki, E. Oset*
 Phys. Rev. **C75** (2007) 064616
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5. *D. T. Khoa, W. von Oertzen, H. G. Bohle and S. Ohkubo*
 Journal of Physics **G34**,R111-R164 (2007)
 Nuclear rainbow scattering and nucleus-nucleus potential
6. *T. Kojo, H. Suganuma and K. Tsumura*
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7. *Xiang Liu, Hua-Xing Chen, Yan-Rui Liu, Atsushi Hosaka and Shi-Lin Zhu*
 Phys Rev **D77** 014031 (2008)
 Bottom baryons
8. *F. Michel and S. Ohkubo*
 Eur. Phys. J. Special Topics **150**, 41-42 (2007)
 Unexpected transparency in the scattering of fragile ^6Li and ^6He nuclei
9. *M. Matsuo, Y. Serizawa, K. Mizuyama*
 Nucl. Phys. **A788** (2007) 307c-315c
 Pairing collectivity in medium-mass neutron-rich nuclei near drip-line
10. *Tkayukii Myo, Satoru Sugimoto, Kiyoshi Kato, Hiroshi Toki and Kiyomi Ikeda*
 Prog. Theor. Phys. **117** (2007) 257-274.
 Tensor correlation in ^4He with the tensor-optimized shell model

11. *Takayuki Myo, Kiyoshi Kato, Hiroshi Toki and Kiyomi Ikeda*
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Roles of the tensor and pairing correlations on the halo formation in ^{11}Li
12. *Takayuki Myo, Kiyoshi Kato and Kiyomi Ikeda*
Phys. Rev. **C76** (2007) 054309.
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13. *Y. Nakagawa, A. Nakamura, T. Saito and H. Toki*
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14. *Seung-il Nam, Ki-Seok Choi, Atsushi Hosaka and Hyun-Chul Kim*
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Test of the reaction mechanism for $\gamma N \rightarrow K\Lambda(1520)$ using the polarized photon
15. *K. Nawa, H. Suganuma and T. Kojo*
Phys. Rev. **D75** (2007) 086003 (24 pages)
Baryons in Holographic QCD
16. *Y. Ogawa, H. Toki, S. Tamenaga*
Phys. Rev. **C76** (2007) 014305
Relativistic chiral mean-field model with parity and charge projection for finite nuclei
17. *S. Ohkubo and H. Hirabayashi*
Physical Review **C75**, 044609 (2007) 1-4
Evidence for strong refraction of ^3He in an alpha particle condensate
18. *S. Ozaki, H. Nagahiro and A. Hosaka*
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Magnetic interaction induced by the anomaly in kaon-photoproductions
19. *L. Roca, A. Hosaka and E. Oset*
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Quantum loops in radiative decays of the $a(1)$ and $b(1)$ axial-vector mesons
20. *Y. Taniguchi, M. Kimura, Y. Kanada-En'yo and H. Horiuchi*
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Clustering and triaxial deformations of ^{40}Ca
21. *J. Yamagata, H. Nagahiro, R. Kimura and S. Hirenzaki*
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Formation of deeply bound kaonic atoms in (K^-, N) reactions

Physics with supercomputer

1. *Sadataka Furui and Hideo Nakajima*
Braz. J. Phys. **37** 186 (2007)
Correlation of the ghost and the quark in the lattice Landau gauge QCD
2. *Sadataka Furui and Hideo Nakajima*
Phys. Rev. **D76** 054509 (2007)
Infrared features of unquenched finite temperature lattice Landau gauge QCD
3. *H. Iida, H. Suganuma and T. T. Takahashi*
Phys. Rev. **D72** (2007) 114503
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4. *Y. Koma, M. Koma*
Nucl. Phys. **B769** (2007) 79–107
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5. *Y. Nakagawa, A. Nakamura, T. Saito and H. Toki*
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6. *Y. Nakagawa, A. Nakamura, T. Saito and H. Toki*
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7. *S. Negishi, H. Matsufuru and T. Onogi*
Prog. Theor. Phys. **117**, 275 (2007)
Precision study of $B^*B\pi$ coupling for the static heavy-light meson
8. *S. Sakai and A. Nakamura*
PoS (LATTICE 2007) 221
Lattice calculation of the QGP viscosities - Present results and Next Project
9. *Toru Sekido, Katsuya Ishiguro, Yoshiaki Koma, Yoshihiro Mori and Tsuneo Suzuki*
Phys. Rev. **D76** (2007) 031501
Abelian dominance and the dual Meissner effect in local unitary gauges in $SU(2)$ gluodynamics
10. *A. Shibata, S. Kato, K.-I. Kondo, T. Murakami, T. Shinohara, S. Ito*
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Compact lattice formulation of Cho-Faddeev-Niemi decomposition: Gluon mass generation and infrared Abelian dominance
11. *T. T. Takahashi*
JHEP **11** (2007) 047
Low-lying Dirac eigenmodes and monopoles in 4D compact QED
12. *T. Umeda*
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Constant contribution in meson correlators at finite temperature

13. *H. Wada, T. Kunihiro, S. Muroya, A. Nakamura, C. Nonaka and M. Sekiguchi*
Phys. Lett. **B652** (2007) 250-254
Lattice Study of Low-lying Nonet Scalar Mesons in Quenched Approximation
14. *H. Wada, T. Kunihiro, S. Muroya, A. Nakamura, C. Nonaka and M. Sekiguchi*
Phys. Lett. **B652** (2007) 250-254
Lattice Study of Low-lying Nonet Scalar Mesons in Quenched Approximation

JOURNALS –In press, submitted and preprints–

Experimental Researches

1. *W.C. Chang, K. Horie, S. Shimizu, M. Miyabe, D.S. Ahn, J.K. Ahn, H. Akimune, Y. Asano, S. Daté, H. Ejiri, S. Fukui, H. Fujimura, M. Fujiwara, S. Hasegawa, K. Hicks, T. Hotta, K. Imai, T. Ishikawa, T. Iwata, Y. Kato, H. Kawai, Z.Y. Kim, K. Kino, H. Kohri, N. Kumagai, P.J. Lin, S. Makino, T. Matsuda, T. Matsumura, N. Matsuoka, T. Mibe, Y. Miyachi, M. Morita, N. Muramatsu, T. Nakano, M. Niigama, M. Nomachi, Y. Ohashi, H. Ohkuma, T. Ooba, D.S. Oshuev, C. Rangacharyulu, A. Sakaguchi, T. Sasaki, P.M. Shagin, Y. Shiino, A. Shimizu, H. Shimizu, Y. Sugaya, M. Sumihama, Y. Toi, H. Toyokawa, A. Wakai, C.W. Wang, S.C. Wang, K. Yonehara, T. Yorita, M. Yoshimura, M. Yosoï and R.G.T. Zegers*
Published in 2008, nucl-ex/0703034, Phys. Lett. **B658** (2008) 209-215
Forward coherent ϕ -meson photoproduction from deuterons near threshold

Theoretical Researches

1. *Ki-Seok Choi, Seung-il Nam, Atsushi Hosaka and Hyun-Chul Kim*
preprint: arXiv:0707.3854 [hep-ph]
Eta Photoproduction and N^* resonances
2. *Y. Manabe, A. Hosaka and H. Toki*
e-Print: arXiv:0705.3497 [nucl-th]
Effect of negative energy components for two-nucleon systems in the relativistic framework with the separable ansatz
3. *Takayuki Myo, Yuma Kikuchi, Kiyoshi Kato, Hiroshi Toki and Kiyomi Ikeda*
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4. *Keitaro Nagata, Atsushi Hosaka and Veljko Dmitrasinovic*
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Chiral properties of baryon interpolating fields

Physics with supercomputer

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A numerical method of solving time-dependent Hartree-Fock-Bogoliubov equation with Gogny interaction
2. *K. Mizuyama, M. Matsuo, Y. Serizawa*
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Continuum quasiparticle linear response theory using the Skyrme functional for multipole responses of exotic nuclei
3. *A. Yamamoto, H. Suganuma and H. Iida*
preprint, arXiv:0708.3160 (2007)
Heavy-heavy-light quark potential in SU(3) lattice QCD

7.2 CONFERENCE PROCEEDINGS AND PRESENTATIONS

Experimental Researches

1. *Masaharu Aoki*
Ninth International Workshop on Neutrino Factories, Superbeams and Betabeams,
Okayama University, Okayama, Aug. 6-11, 2007
PRISM Design Status
2. *Yasushi Arimoto*
FFAG Workshop '07, KURRI, Kumatori, Osaka, Nov. 5-10, 2007
Phaser Rotation Ring with Sinusoidal Wave Cavity
3. *Yasushi Arimoto*
Ninth International Workshop on Neutrino Factories, Superbeams and Betabeams,
Okayama University, Okayama, Aug. 6-11, 2007
PRISM-FFAG Magnet
4. *Yasushi Arimoto*
Semi-Annual International Workshop: FFAG 2007, Laboratoire de Physique
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Field measurement of PRISM-FFAG Magnets
5. *Yasushi Arimoto*
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Subatomique et de Cosmologie de Grenoble, Grenoble, France, Apr, 12-17, 2007
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6. *Yasushi Arimoto, Toshiyuki Oki, Md. Imam Hossain, Yosuke Takubo, Masaharu Aoki, Yasutoshi Kuriyama, Takahisa Itahashi, Akira Sato, Makoto Yoshida, Noriyuki Miyamoto, Yoshitaka Kuno*
Magnet Technology Conference, Philadelphia, USA, Aug. 27-31, 2007
Development of FFAG magnet for high-brightness muon beam
7. *W.C. Chang for the LEPS collaboration*
17th International Spin Physics Symposium (SPIN06) Kyoto, Japan, 2-7 Oct. 2006
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745-748
Coherent phi-meson photo-production from deuterons near threshold
8. *K. Fujita, Y. Sakemi, S. Asaji, M. Dozono, K. Hatanaka, E. Ihara, T. Kaneda, H. Matsubara, H. Okamura, Y. Shimizu, Y. Tameshige A. Tamii and T. Wakasa*
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AIP Conf. Proc. **915** (2007) 803-806
Proton induced coherent pion production
9. *H. Fujimura for the LEPS collaboration*
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Published in AIP Conf.Proc.915:737-740,2007,
Prog.Theor.Phys.Suppl.168:123-126,2007. Also in *Kyoto 2006, Spin physics* 737-740
 $\Lambda^*(1405)$ photo-production at SPring-8/LEPS

10. *T. Fukuchi, T. Hori, T. Masue, K. Tajiri, A. Sato, T. Furukawa, A. Odahara, T. Shimoda, Y. Wakabayashi, Y. Gono, T. Suzuki, M. Ukai, T. Wakui, A. Yamazaki, Y. Miyashita, N. Sato, M. Tateoka, M. Ohguma, T. Shinozuka, T. Koike, K. Shirotori, Y. Miura, S. Kinoshita, Y. Ma, Y.Y. Fu and H. Tamura*
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 Tokyo, Japan, June 3-8, 2007
 High-Spin Isomers in Erbium Isotopes
11. *Yoshitaka Kuno*
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 Okayama University, Okayama, Aug. 6-11, 2007
 Muon Physics Experiments
12. *N. Muramatsu for the LEPS Collaboration*
 YKIS Seminar on New Frontiers in QCD: Exotic Hadrons and Hadronic Matter,
 Kyoto, Japan, 20 Nov - 8 Dec (2006); Progress of Theoretical Physics Supplement
 No. 168, 2007
 Recent Results and Prospects on the Θ^+ Study at LEPS
13. *M. Niiyama for the LEPS collaboration*
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 2006. Published in AIP Conf.Proc.915:733-736,2007. Also in Kyoto 2006, Spin
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14. *A. Odahara, Y. Gono, Y. Wakabayashi, T. Fukuchi, H. Sagawa, T. Shimoda, A. Sato, T. Hori, T. Masue, K. Tajiri, K. Kura*
 Int. Nuclear Physics Conf. (INPC2007), Tokyo, Japan, June 3-8, 2007
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15. *H. Okamura*
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 (2007),
 Studies at RCNP cyclotron related to chiral symmetry in nuclear physics
17. *S. Sakaguchi, T. Uesaka, T. Wakui, T. Kawabata, N. Aoi, Y. Hashimoto, M. Ichikawa, Y. Ichikawa, K. Itoh, M. Itoh, H. Iwasaki, T. Kawabata, H. Kuboki, Y. Maeda, R. Matsuo, T. Nakao, H. Okamura, H. Sakai, N. Sakamoto, Y. Sasamoto, M. Sasano, Y. Satou, K. Sekiguchi, M. Shinohara, K. Suda, D. Suzuki, Y. Takahashi, A. Tamii, K. Yako and M. Yamaguchi*
 The 17th International Spin Physics Symposium, Kyoto, Japan, October 2-7 (2006),
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 Analyzing power measurement for elastic scattering of ^6He on polarized protons

18. *M. Sasano, H. Sakai, K. Yako, H. Kuboki, K. Miki, S. Noji, T. Wakasa, M. Dozono, K. Sekiguchi, T. Uesaka, T. Kawabata, Y. Maeda, S. Sakaguchi, Y. Sasamoto, K. Suda, K. Itoh, K. Hatanaka, H. Okamura, A. Tamii, K. Muto, D. Frekers and M.B. Greenfield*
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 Determination of the Gamow-Teller transition strength to $^{116}\text{In}(\text{g.s.})$ by the $^{116}\text{Cd}(p, n)$ reaction at 300 MeV for the study of the nuclear matrix element of the two-neutrino double beta decay
19. *Akira Sato*
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20. *Akira Sato*
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 Status of PRISM-FFAG
21. *Akira Sato*
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 Study of possibility of demonstration of HNJ using a scaling-FFAG in Japan
22. *Akira Sato*
 Topical workshop on The Neutrino Factory and Muon Collider, the physics and the R&D programs, The Cosener's House, Abingdon, Oxfordshire. UK, 22-24 October 2007
 Muon Facility - Low Energy Muon Beam -
23. *K. Sekiguchi, H. Sakai, N. Sakamoto, H. Kuboki, M. Sasano, Y. Takahashi, K. Yako, T. Kawabata, Y. Maeda, S. Sakaguchi, Y. Sasamoto, K. Suda, T. Uesaka, H. Okamura, K. Itoh and T. Wakasa*
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 Study of spin parts of three nucleon forces via $\vec{d}p$ breakup reactions at intermediate energies
24. *M. Sumihama for the LEPS collaboration*
 17th International Spin Physics Symposium (SPIN06) Kyoto, Japan, 2-7 Oct 2006. Published in AIP Conf.Proc.915:741-744,2007. Also in *Kyoto 2006, Spin physics* 741-744
 Hyperon photoproduction by linearly polarized photons at SPring-8/LEPS

25. *A. Tamii, T. Adachi, J. Carter, M. Dozono, H. Fujita, Y. Fujita, K. Hatanaka, H. Hashimoto, T. Kaneda, M. Itoh, T. Kawabata, H. Matsubara, K. Nakanishi, P. von Neumann-Cosel, H. Okamura, A. Perez, I. Poltoratska, V. Ponomarev, L. Popescu, A. Richter, B. Rubio, H. Sakaguchi, Y. Sakemi, Y. Sasamoto, Y. Shimbara, Y. Shimizu, F.D. Smit, Y. Tameshige, M. Yosoi, J. Zenihiro and K. Zimmer*
 The 2nd International Conference on “Collective Motion in Nuclei under Extreme Conditions (COMEX 2)” Sankt Goar, Germany, June 20–23 (2006), Nucl. Phys. **A788** (2007) 53c–60c
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7.3 ACADEMIC THESIS

DOCTORS

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RCNP, Osaka University
Measurement of proton induced coherent pion production
2. Kazuhito Mizuyama
Graduate School of Science and Technology, Niigata University
Continuum quasiparticle linear response theory using the Skyrme functional for multipole responses of exotic nuclei
3. Masaki Sasano
Department of Physics, University of Tokyo
Study of intermediate states of the two neutrino double beta decay via the (p, n) and (n, p) reactions at 300 MeV
4. Toru Sekido
Kanazawa University
Quark confinement and the dual superconductor picture in SU(2) gluodynamics

MASTERS

1. Toshikazu Hori
Department of Physics, Osaka University
Beta decay of the $21/2^+$ isomer in ^{93}Mo
2. *Shogo Ida*
Department of Physics, Osaka University
Quark model study for mesons with relativistic effects
3. *Ema Ihara*
Department of Physics, kyushu Univerisity
Study of spin degree of freedom in three nucleon system
4. Toshiyuki Masue
Department of Physics, Osaka University
Search for high-spin isomers in $A \sim 90$ region
5. Kenjiro Miki
Department of Physics, University of Tokyo
Study of the double beta decay process of ^{48}Ca via the $^{48}\text{Ti}(n, p)$ reaction
6. Sho Ozaki
Department of Physics, Osaka University
The role of the QCD anomaly in the Kaon photoproduction
7. Naoyuki Sakumichi
Department of Chemistry, Koyo University
Analyses of Nonperturbative Quantum Phenomena
–Proton Transfer Chemical Reaction and Quark Confinement in QCD–

8. Arata Yamamoto

Department of Physics, Koyo University

Study of the Inter-Two-Quark Potential in Baryons in Quantum Chromodynamics

HABILITATION

1. *M.N.Chernodub*

Institute for Theoretical and Experimental Physics (ITEP), Moscow, Russia

Topological defects as probes of nonperturbative structure of Quantum
Chromodynamics

7.4 OTHERS

Editing Proceedings, books etc.

1. *Teiji Kunihiro, Hideto Enyo, Masayasu Harada, Tetsuo Hatsuda, Atsushi Hosaka, Yoshiko Kanada-Enyo, Su Houng Lee, Atsushi Nakamura, Takashi Nakano, Makoto Oka and Hideo Suganuma*
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