Publications based on studies using the RCNP Supercomputer

RCNP Computer and Network Committee

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This is a list of publications resulting from studies using the supercomputer NEC SX-4 at Research Center for Nuclear Physics, Osaka University. The contributions have been reported by the users during 8–25 September 2000, on the works carried out since Junuary 1997. The contributions are categorized into three classes: papers published in scientific journals, in conference proceedings, and in textbooks. The proceedings published in scientific journals are categorized in the first class.

1 Papers published in Scientific Journals

2000

1. K. Amemiya and H. Suganuma,
   Off-diagonal Gluon Mass and Essence of Infrared Abelian Dominance in the Maximally Abelian Gauge,
   Nuclear Physics **B** (Proc. Suppl.) **83-84** (2000) 419-421.

2. M. Fukushima, H. Suganuma and H. Toki,
   Quark Confinement and Extended Monopole Clustering in the Multi-Instanton System,
   Nuclear Physics **B** (Proc. Suppl.) **83-84** (2000) 458-460.

3. H. Ichie and H. Suganuma,
   Monopoles and Gluon Fields in QCD in the Maximally Abelian Gauge,
   Nuclear Physics **B574** (2000) 70-106.

4. B.-t. Kim with D. P. Knobles, S. A. Stotts and T, Udagawa,
   Antisymmetric distorted wave impulse approximation calculations of spin transfer cross sections for $(\vec{^3He}, \vec{t})$ *reactions to the continuum*,
   Phys. Rev. C **61** (2000) 044611.

5. Kolganova E. A., Motovilov A. K., and Ho Y. K.,
   Complex scaling of the Faddeev operator,
   to appear in Nucl. Phys. A.

6. Kolganova E.A. and Motovilov A.K.,
   Scattering and resonances in the ^{4}*He three-atomic system*,
   Computer Physics Communications **126** (2000) 88-92.

7. Y. Koma, H. Suganuma, K. Amemiya, M. Fukushima and H. Toki,
Quark Confinement Physics in Quantum Chromodynamics,
Nuclear Physics **A663&664** (2000) 1027c-1030c.

8. D.U. Matrasulov, M.M. Musakhanov, T. Morii,
Spectra of doubly heavy quark baryons
Physical Review C 61 (2000) 045204.

9. Motovilov A.K., Sandhas W., Sofianos S.A., and Kolganova E.A.,
Binding energies and scattering observables in the $^4He_3$ atomic system,
to appear in Nucl. Phys. A.

10. M.M.Musakhanov, U.T.Yakhshiev, A.M.Rakhimov,
In medium dynamics of antibaryon-baryon annihilation in the Skyrme model,
Phys. Lett. B 482 (2000) 363.

11. QCD-TARO Collaboration (Ph. de Forcrand, M. Garcia Perez, T. Hashimoto, S. Hioki, H. Matsufuru, O. Miyamura, A. Nakamura, I.-O. Stamatescu, T. Takaishi, T. Umeda),
Renormalization group flow of SU(3) lattice gauge theory - Numerical studies in a two coupling space -,
Nucl. Phys. B577 (2000) 263-278.

12. QCD-TARO Collaboration (Ph.de Forcrand, M.García Pérez, T.Hashimoto, S.Hioki, H.Matsufuru, O.Miyamura, A.Nakamura, I.-O.Stamatescu, T. Takaishi, T.Umeda),
Monte Carlo Renormalization Group analysis of QCD in two dimensional coupling space,
Nucl. Phys. B (Proc.Suppl.) 83-84 (2000) 872-874.

13. D. Roy, T. Morii, H. Toki and A. Titov,
Is there window for "supersoft Pomeron in J/psi photoproduction at low energy?",
Prog. Theor. Physics 103 (2000) 747.

14. S. Sakai, A. Nakamura and T. Saito,
Anisotropic Improved Actions,
Nucl. Phys. B (Proc. Suppl) 83-84 (2000) 399-401.

15. S. Sakai, A. Nakamura and T. Saito,
Improved Gauge Actions on anisotropic lattices I: - Study of Fundamental Parameters in Weak Coupling Limit-,
to be published in Nucl. Phys. B (2000).

16. F. Shoji, T. Suzuki, H. Kodama, A. Nakamura,
A New Gauge Fixing Method for Abelian Projection,
Physics Letters B476 (2000) 199-204.

17. H. Suganuma, K. Amemiya and H. Ichie,
Infrared Abelian Dominance and Dual Higgs Mechanism in Maximally Abelian Gauge,
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18. H. Suganuma, K. Amemiya, H. Ichie and A. Tanaka,
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19. H. Suganuma, H. Matsufuru, Y. Nemoto and T. T. Takahashi,
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20. K. Sumiyoshi, H. Suzuki, K. Otsuki, M. Terasawa and S. Yamada,
Hydrodynamical study of neutrino-driven wind as an r-process site,
Astronomical Society of Japan 52 (2000) 601 - 611.

21. A.I. Titov, B. Kampfer and B.L. Reznik,
Production of ϕ mesons on pi N and NN reactions.,
Eur. Phys. J. A 7 (2000) 543-557.

22. H. Toki, M. Fukushima and H. Suganuma,
Confinement and Role of Instantons,
Nuclear Physics **A** (2000) in press.

23. H. Toki and H. Suganuma,
Dual Ginzburg-Landau Theory for Confinement and Chiral Symmetry Breaking,
J. Phys. G : Nucl. Part. Phys. (2000) 74 pages, in press.

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Recent topics of infrared effective lattice QCD,
Nuclear Physics B (Proc.Suppl.) 83 (2000) 550-552.

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1. J. Ambjorn, K.N.Anagnostopoulos, W.Bietenholz, T.Hotta and J.Nishimura,
Large N Dynamics of Dimensionally Reduced 4D SU(N) Super Yang-Mills Theory,
Journal of High Energy Physics 0007 (2000) 013.

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Monte Carlo Studies of IIB Matrix Model at Large N,
Journal of High Energy Physics 0007 (2000) 011.

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Off-diagonal Gluon Mass Generation and Infrared Abelian Dominance in the Maximally Abelian Gauge in Lattice QCD,
Physical Review **D60** (1999) 114509 (9 pages).

4. F. Araki, M. Musakhanov and H. Toki,
On the Role of Charm in Decay of B-mesons to eta' K,
Phys. Rev., D 59(1999) 037501.

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Physical Review **D60** (1999) 094504 (10 pages).

6. H. Ichie and H. Suganuma,
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Nuclear Physics **B548** (1999) 365-382.

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Physical Review **D60** (1999) 077501 (4 pages).

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Mechanism of the emergence of Efimov states in the ^{4}He trimer,
Phys. Atom. Nucl. **62** (1999) 1179-1192.

9. Y. Koma, H. Suganuma and H. Toki,
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Nucl. Phys. A649 (1999) 379c-386c.

12. Motovilov A.K. and Kolganova E.A.,
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Nuovo. Cimento. 114B (1999) 983.

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Phys. Rev. C 60 (1999) 035205 (20 pages).

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Nuclear Physics **B** (Proc. Suppl.) **63A-C** (1998) 513-515.

2. H. Ichie, A. Tanaka and H. Suganuma,
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Nuclear Physics **B** (Proc. Suppl.) **63A-C** (1998) 468-470.

3. H. Ichie, H. Suganuma and A. Tanaka,
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Jour. Kor. Phys. Soc. **33** (1998) 550-555.

5. H. Monden, H. Ichie, H. Suganuma and H. Toki,
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Physical Review **C57** (1998) 2564-2575.

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Nucl. Phys. **A 630** (1998) 148c-159c.

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12. E.Di Salvo, M.Musakhanov,
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Progress of Theoretical Physics Supplement **131** (1998) 559-571.

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Thermal history and structure of rotating proto-neutron stars with relativistic equation of state,
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4. S. Sasaki, H. Suganuma and H. Toki,
Confinement Mechanism and Chiral Phase Transition in the Non-Perturbative Vacuum of QCD,
Progress of Theoretical Physics Supplement **129** (1997) 227-230.

5. H. Suganuma, S. Sasaki, H. Ichie, F. Araki and O. Miyamura,
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Nuclear Physics **B** (Proc. Suppl.) **53** (1997) 528-530.

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Monopole Dominance for Nonperturbative QCD,
Australian Journal of Physics **50** (1997) 233-243.

7. H. Toki, S. Sasaki, H. Ichie and H. Suganuma,
Chiral Symmetry Breaking in the Dual Ginzburg-Landau Theory,
Australian Journal of Physics **50** (1997) 199-204.

2 Papers published in Conference Proceedings

2000

1. K. Amemiya, H. Ichie and H. Suganuma,
Off-diagonal Gluon Mass Generation and Strong Randomness of Off-diagonal Gluon Phase in the Maximally Abelian Gauge,

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2. K. Amemiya and H. Suganuma,
Infrared Higgs-like Mechanism of QCD in the MA Gauge,
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edited by A. Chodos, H. Minakata and N. Kitazawa (Universal Academy Press, 2000) in press.

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Deformation of Instantons in the External Color Fields,
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Intersection between Microscopic and Macroscopic Abelian Dominance in the Confinement Physics of QCD,
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