

List of Publications

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Original Papers

1. A. Ono, J. Xu, M. Colonna, P. Danielewicz, C. M. Ko, Manye B. Tsang, Yong-Jia Wang, H. Wolter, Ying-Xun Zhang, L.-W. Chen, D. Cozma, H. Elfner, Z.-Q. Feng, N. Ikeno, B.-A. Li, S. Mallik, Y. Nara, T. Ogawa, A. Ohnishi, D. Oliinychenko, J. Su, T. Song, F.-S. Zhang, Z. Zhang,
“Comparison of heavy-ion transport simulations: Collision integral with pions and Δ resonances in a box”,
Phys. Rev. C (2019), to appear [arXiv:1904.02888 [nucl-th]].
2. Y. Mori, K. Kashiwa, A. Ohnishi,
“Path optimization in 0+1 dimensional QCD at finite density”,
Prog. Theor. Exp. Phys. **2019** (2019), to appear [arXiv:1904.11140 [hep-lat]] (KUNS-2757, YITP-19-34).
3. K. Kashiwa, Y. Mori, A. Ohnishi,
“Application of path optimization method to the model sign problem in QCD effective model with repulsive vector-type interaction”,
Phys. Rev. D **99** (2019), 114005 [arXiv:1903.03679[hep-lat]] (YITP-19-10, KUNS-2749).
4. K. Kashiwa, Y. Mori, A. Ohnishi,
“Controlling the model sign problem via the path optimization method: Monte Carlo approach to a QCD effective model with Polyakov loop”,
Phys. Rev. D **99** (2019), 014033 (1-9) [arXiv:1805.08940 [hep-ph]] (YITP-18-43, KUNS-2724).
5. X. Wu, A. Ohnishi, H. Shen,
“Effects of quark matter symmetry energy on hadron-quark coexistence in neutron star matter”,
Phys. Rev. C **98** (2018), 065801 (1-9) [arXiv:1806.03760 [nucl-th]] (YITP-18-56).
6. Y. Akamatsu, M. Asakawa, T. Hirano, M. Kitazawa, K. Morita, K. Murase, Y. Nara, C. Nonaka, A. Ohnishi,
“Dynamically integrated transport approach for heavy-ion collisions at high baryon density”,
Phys. Rev. C **98** (2018), 024909 (1-9) [arXiv:1805.09024 [nucl-th]].
7. Y. Mori, K. Kashiwa, A. Ohnishi,
“Lefschetz thimbles in fermionic effective models with repulsive vector-field”,
Phys. Lett. B **781** (2018), 688-693 [arXiv:1705.03646 [hep-lat]] (KUNS-2679, YITP-17-50).
8. Y.-X. Zhang, Y.-J. Wang, M. Colonna, P. Danielewicz, A. Ono, B. Tsang, H. Wolter, J. Xu, L.-W. Chen, D. Cozma, Z.-Q. Feng, N. Ikeno, C. M. Ko, B.-A. Li, Q.-F. Li, Z.-X. Li, S. Mallik, Y. Nara, T. Ogawa, A. Ohnishi, D. Oliinychenko, M. Papa, H. Petersen, J. Su, T. Song, J. Weil, N. Wang, F.-S. Zhang, Z. Zhang,
“Comparison of heavy-ion transport simulations II: Collision integral in a box”,
Phys. Rev. C **97** (2018), 034625 (1-20) [arXiv:1711.05950 [nucl-th]].
9. Y. Nara, H. Niemi, A. Ohnishi, J. Steinheimer, X. Luo, H. Stoecker,
“Enhancement of elliptic flow can signal a first order phase transition in high energy heavy ion collisions”,
Eur. Phys. J. A **54** (2018), 18 (1-13) [arXiv:1708.05617 [nucl-th]] (YITP-17-80).
10. Y. Mori, K. Kashiwa, A. Ohnishi,
“Application of neural network to sign problem via path optimization method”,
Prog. Theor. Exp. Phys. **2018** (2018), 023B04 (1-10) [arXiv:1709.03208 [hep-lat]] (YITP-17-98).
11. H. Tsukiji, T. Kunihiro, A. Ohnishi, T. T. Takahashi,
“Entropy production and isotropization in Yang-Mills theory with use of quantum distribution function”,
Prog. Theor. Exp. Phys **2018** (2018), 013D02 (1-17) [arXiv:1709.00979 [hep-ph]] (KUNS-2698, YITP-17-93).
12. P. van Wyk, H. Tajima, D. Inotani, A. Ohnishi, Y. Ohashi,
“Superfluid Fermi atomic gas as a quantum simulator for the study of neutron-star equation of state”,
Phys. Rev. A **97** (2018), 013601 (1-13) [arXiv:1709.03279 [cond-mat.quant-gas]].
13. Y. Mori, K. Kashiwa, A. Ohnishi,
“Toward solving the sign problem with path optimization method”,
Phys. Rev. D **96** (2017), 111501(R) (1-4) [arXiv:1705.05605 [hep-lat]] (KUNS-2681, YITP-17-54).
14. I. Tews, J. M. Lattimer, A. Ohnishi, E. E. Kolomeitsev,
“Symmetry Parameter Constraints from a Lower Bound on the Neutron-Matter Energy”,
Astrophys. J. **848** (2017), 105 (1-15) [arXiv:1611.07133 [nucl-th]] (YITP-16-121).
15. K. Kashiwa, A. Ohnishi,
“Topological deconfinement transition in QCD at finite isospin density”,
Phys. Lett. B **772** (2017), 669-674 [arXiv:1701.04953 [hep-ph]] (YITP-17-04).
16. K. Miura, N. Kawamoto, T. Z. Nakano, and A. Ohnishi,

- “Polyakov loop effects on the phase diagram in strong-coupling lattice QCD”,
 Phys. Rev. D **95** (2017), 114505 (1-20) [arXiv:1610.09288 [hep-lat]] (YITP-16-119).
17. A. Ohnishi, K. Kashiwa, K. Morita,
 “Three-baryon interaction generated by determinant interaction of quarks”,
 Prog. Theor. Exp. Phys. **2017** (2017), 073D04 (1-19) [arXiv:1610.06306 [nucl-th]] (YITP-16-115).
 18. S. Cho, T. Hyodo, D. Jido, C. M. Ko, S. H. Lee, S. Maeda, K. Miyahara, K. Morita, M. Nielsen, A. Ohnishi, T. Sekihara, T. Song, S. Yasui, K. Yazaki (ExHIC Collaboration),
 “Exotic Hadrons from Heavy Ion Collisions”,
 Prog. Part. Nucl. Phys. **95** (2017), 279-322 [arXiv:1702.00486 [nucl-th]] (YITP-06-120).
 19. H. Tsukiji, H. Iida, T. Kunihiro, A. Ohnishi, T. T. Takahashi,
 “Entropy production from chaoticity in Yang-Mills field theory with use of the Husimi function”,
 Phys. Rev. D **94** (2016), 091502(R) (1-6) [arXiv:1603.04622 [hep-ph]] (KUNS-2616, YITP-16-40).
 20. Y. Nara, H. Niemi, A. Ohnishi, H. Stoecker,
 “Examination of directed flow as a signature of the softest point of the equation of state in QCD matter”,
 Phys. Rev. C **94** (2016), 034906 (1-10) [arXiv:1601.07692 [hep-ph]] (YITP-15-120).
 21. K. Morita, A. Ohnishi, F. Etminan, T. Hatsuda,
 “Probing Multi-Strange Dibaryon with Proton-Omega Correlation in High-energy Heavy Ion Collisions”,
 Phys. Rev. C **94** (2016), 031901(R) (1-5) [arXiv:1605.06765 [hep-ph]] (YITP-16-62, RIKEN-QHP-223).
 22. K. Kashiwa, A. Ohnishi,
 “Quark number holonomy and confinement-deconfinement transition”,
 Phys. Rev. D **93** (2016), 116002 (1-6) [arXiv:1602.06037 [hep-ph]] (YITP-16-13).
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 “Hadron-Hadron Correlation and Interaction from Heavy-Ion Collisions”,
 Nucl. Phys. A **954** (2016), 294-307 [arXiv:1603.05761 [nucl-th]] (YITP-16-37, KUNS-2614).
 24. S. Tsutsui, T. Kunihiro, A. Ohnishi,
 “Parametric Instability of Classical Yang-Mills Fields in an Expanding Geometry”,
 Phys. Rev. D **94** (2016), 016001 (1-16) [arXiv:1512.00155 [hep-ph]] (KUNS-2598, YITP-15-101).
 25. N. Ikeno, A. Ono, Y. Nara, A. Ohnishi,
 “Probing neutron-proton dynamics by pions”,
 Phys. Rev. C **93** (2016), 044612 (1-13) [Erratum: Phys. Rev. C **97** (2018), 069902(E)(1-5).] [arXiv:1601.07636 [nucl-th]] (YITP-16-6).
 26. T. Ichihara, K. Morita, A. Ohnishi,
 “Net-baryon number fluctuations across the chiral phase transition at finite density in strong coupling lattice QCD”,
 Prog. Theor. Exp. Phys. **2015** (2015), 113D01 (1-16) [arXiv:1507.04527 [hep-lat]] (KUNS-2568, YITP-15-58).
 27. K. Kashiwa, A. Ohnishi,
 “Topological feature and phase structure of QCD at complex chemical potential”,
 Phys. Lett. B **750** (2015), 282-286 [arXiv:1505.06799 [hep-ph]] (YITP-15-45).
 28. H. Tsukiji, H. Iida, T. Kunihiro, A. Ohnishi, T. T. Takahashi,
 “Entropy production in quantum Yang-Mills mechanics in semi-classical approximation”,
 Prog. Theor. Exp. Phys. **2015** (2015), 083A01 (1-16) [arXiv:1505.04698 [hep-ph]] (KUNS-2561, YITP-15-42).
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 “Parametric Instability of Classical Yang-Mills Fields under Color Magnetic Background”,
 Phys. Rev. D **91** (2015), 076003 (1-14) [arXiv:1411.3809 [hep-ph]] (KUNS-2529, YITP-14-89).
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 “Lambda-Lambda interaction from relativistic heavy-ion collisions”,
 Phys. Rev. C **91** (2015), 024916 (1-16) [arXiv:1408.6682 [nucl-th]] (YITP-14-67).
 31. C. Ishizuka, T. Suda, H. Suzuki, A. Ohnishi, K. Sumiyoshi, H. Toki,
 “EOSDB: The Database for Nuclear EoS”,
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 32. T. Ichihara, A. Ohnishi, T. Z. Nakano,
 “Auxiliary field Monte Carlo simulation of strong coupling lattice QCD for QCD phase diagram”,
 Prog. Theor. Exp. Phys. **2014** (2014), 123D02 (1-23) [arXiv:1401.4647 [hep-lat]] (KUNS-2476, YITP-14-2).
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 “Mass and radius formulas for low-mass neutron stars”,
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 34. H. Ueda, T. Z. Nakano, A. Ohnishi, Marco Ruggieri, K. Sumiyoshi,
 “QCD phase diagram at finite baryon and isospin chemical potentials in Polyakov loop extended quark meson model with vector interaction”,
 Phys. Rev. D **88** (2013), 074006 (1-9) [arXiv:1304.4331 [nucl-th]] (KUNS-2447, YITP-13-26).

35. H. Iida, T. Kunihiro, B. Müller, A. Ohnishi, A. Schäfer, T. T. Takahashi,
“Entropy production in classical Yang-Mills theory from Glasma initial conditions”,
Phys. Rev. D **88** (2013), 094006 (1-13) [arXiv:1304.1807 [hep-ph]] (KUNS-2433, YITP-13-10).
36. M. Isaka, M. Kimura, A. Doté, A. Ohnishi,
“Splitting of the p orbit in triaxially deformed ${}_{\Lambda}^{25}\text{Mg}$ ”,
Phys. Rev. C **87** (2013), 021304(R) (1-5).
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“Strong-coupling Analysis of Parity Phase Structure in Staggered-Wilson Fermions”,
Phys. Rev. D **86** (2012), 034501 (1-17) [arXiv:1205.6545 [hep-lat]] (KUNS-2402, RIKEN-MP-49, YITP-12-46).
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“Modification of triaxial deformation and change of spectrum in ${}_{\Lambda}^{25}\text{Mg}$ caused by Λ hyperon”,
Phys. Rev. C **85** (2012), 034303 (1-8) [arXiv:1109.1116 [nucl-th]].
41. K. Nakazato, S. Furusawa, K. Sumiyoshi, A. Ohnishi, S. Yamada, H. Suzuki,
“Hyperon Matter and Black Hole Formation in Failed Supernovae”,
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42. S. Cho, T. Furumoto, T. Hyodo, D. Jido, C. M. Ko, S. H. Lee, M. Nielsen, A. Ohnishi, T. Sekihara, S. Yasui, K. Yazaki (ExHIC Collaboration),
“Exotic Hadrons in Heavy Ion Collisions”,
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43. A. Ohnishi, H. Ueda, T. Z. Nakano, M. Ruggieri, K. Sumiyoshi,
“Possibility of QCD critical point sweep during black hole formation”,
Phys. Lett. B **704** (2011), 284-290 [arXiv:1102.3753 [nucl-th]] (YITP-11-23).
44. A. Nishiyama and A. Ohnishi,
“Entropy current for the relativistic Kadanoff-Baym equation and H-theorem in $O(N)$ theory with NLO self-energy of $1/N$ expansion”,
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45. S. Cho, T. Furumoto, T. Hyodo, D. Jido, C. M. Ko, S. H. Lee, M. Nielsen, A. Ohnishi, T. Sekihara, S. Yasui, and K. Yazaki (ExHIC Collaboration),
“Identifying Multiquark hadrons from Heavy Ion Collisions”,
Phys. Rev. Lett. **106** (2011), 212001 (1-4) [arXiv:1011.0852 [nucl-th]] (YITP-10-117).
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“Shell and cluster states of ${}_{\Lambda}^{21}\text{Ne}$ studied with antisymmetrized molecular dynamics”,
Phys. Rev. C **83** (2011), 054304 (1-8).
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“Deformation of hypernuclei studied with antisymmetrized molecular dynamics”,
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“Entropy Production in Gluodynamics in temporal axial gauge in 2+1 dimensions”,
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“Level structure and production cross section of ${}_{\Xi}^{12}\text{Be}$ studied with coupled-channels antisymmetrized molecular dynamics”,
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“Chiral and deconfinement transitions in strong coupling lattice QCD with finite coupling and Polyakov loop effects”,
Phys. Rev. D **83** (2011), 016014 (1-13) [arXiv:1009.1518 [hep-lat]] (YITP-10-78, KUNS-2295).
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“Chaotic behavior in classical Yang-Mills dynamics”,
Phys. Rev. D **82** (2010), 114015 (1-9) [arXiv:1008.1156 [hep-ph]] (YITP-10-77).
52. K. Tsubakihara, H. Maekawa, H. Matsumiya, A. Ohnishi,
“Lambda hypernuclei and neutron star matter in a chiral $SU(3)$ relativistic mean field model with a logarithmic potential”,
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- “Effective Potential in the Strong-coupling Lattice QCD with Next-to-Next-to-Leading Order Effects”,
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 “Nuclear Matter and Finite Nuclei in Effective Chiral Model”,
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 “Phase diagram evolution at finite coupling in strong coupling lattice QCD”,
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 “Possibility of an s-wave pion condensate in neutron stars reexamined”,
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 “Quarkyonic matter in lattice QCD at strong coupling”,
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 “Towards a Theory of Entropy Production in the Little and Big Bang”,
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 “Emergence of Hyperons in Failed Supernovae: Trigger of the Black Hole Formation”,
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60. C. Ishizuka, A. Ohnishi, K. Tsubakihara, K. Sumiyoshi, S. Yamada,
 “Tables of Hyperonic Matter Equation of State for Core-Collapse Supernovae”,
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 “Existence of density functionals for excited states and resonances”,
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 “A chiral symmetric relativistic mean field model with a logarithmic sigma potential”,
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