

VIII. LIST OF PREPRINTS

List of Preprints (April 2013 - March 2014)

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101	Feasibility of the finite amplitude method in covariant density functional theory	H. Liang, T. Nakatsukasa et al.	Apr., 2013
102	Deformation and cluster structures in ^{12}C studied with configuration mixing using Skyrme interactions	Y. Fukuoka, S. Shinohara et al.	Apr., 2013
105	Giant dipole resonance in ^{88}Mo from phonon damping model's strength functions averaged over temperature and angular momentum distributions	N. Dinh Dang, M. Ciemala et al.	Apr., 2013
106	Nuclear β^+ /EC decays in covariant density functional theory and the impact of isoscalar proton-neutron pairing	Z. M. Niu, Y. F. Niu et al.	Apr., 2013
107	Shape evolution of giant resonances in Nd and Sm isotopes	K. Yoshida, T. Nakatsukasa	Jun., 2013
108	Low-energy E1 strength in select nuclei: Possible constraints on the neutron skins and the symmetry energy	T. Inakura, T. Nakatsukasa et al.	Jun., 2013
109	Single-reference high-precision mass measurement with a multi-reflection time-of-flight mass spectrograph	Y. Ito, P. Schury et al.	Jul., 2013
110	On the importance of using exact pairing in the study of pygmy dipole resonance	N. Dinh Dang, N. Quang Hung	May, 2013
111	A Novel Ion Cooling Trap for Multi-Reflection Time-of-Flight Mass Spectrograph	Y. Ito, P. Schury et al.	Aug., 2013
112	Pseudospin symmetry in supersymmetric quantum mechanics. II. Spin-orbit effects	S. Shen, H. Liang et al.	May, 2013
113	Pairing effects in nuclear fusion reaction	S. Ebata, T. Nakatsukasa	Aug., 2013
114	Wide-band mass measurements with a multi-reflection time-of-flight mass spectrograph	P. Schury, Y. Ito et al.	Sep., 2013
115	Nuclear charge-exchange excitations in localized covariant density functional theory	H.Z. Liang, J. Meng et al.	Aug., 2013
116	Pseudospin symmetry: Recent progress with supersymmetric quantum mechanics	H. Liang, J. Meng et al.	Oct., 2013
117	Production cross section measurements of radioactive isotopes by BigRIPS separator at RIKEN RI Beam Factory	H. Suzuki, T. Kubo et al.	Oct., 2013
118	Identification and Separation of Radioactive Isotope Beams by the BigRIPS Separator at the RIKEN RI Beam Factory	N. Fukuda, T. Kubo et al.	Oct., 2013
119	Extraction of 3D field maps of magnetic multipoles from 2D surface measurements with applications to the optics calculations of the large-acceptance superconducting fragment separator BigRIPS	H. Takeda, T. Kubo et al.	Nov., 2013
120	Development of Parallel Plate Avalanche Counter PPAC for BigRIPS fragment separator	H. Kumagai, T. Ohnishi et al.	Nov., 2013
121	Finite-amplitude method: An extension to the covariant density functionals	H. Liang, T. Nakatsukasa et al.	Oct., 2013
122	Pure collective precession motion of a high-spin torus isomer	T. Ichikawa, K. Matsuyanagi et al.	Jan., 2014
123	Structure of ^{136}Sn and the $Z=50$ magicity	H. Wang, N. Aoi et al.	Nov., 2013
124	Probing the critical behavior in the evolution of GDR width at very low temperatures in $A \sim 100$ mass region	B. Dey, D. Mondal et al.	Oct., 2013
125	Current status of the "Hybrid Kurotama model" for total reaction cross sections	L. Sihver, A. Kohama et al.	Mar., 2014
126	An improved parameterization of the transparency parameter in Kox and Shen models of total reaction cross sections	L. Sihver, M. Lantz et al.	Mar., 2014
127	DALI2: A NaI(Tl) detector array for measurements of γ rays from	S. Takeuchi, T. Motobayashi et al.	Feb., 2014
128	Giant dipole resonance in highly excited nuclei	N. Dinh Dang	Jul., 2013
129	Oblate deformation of light neutron-rich even-even nuclei	I. Hamamoto	Feb., 2014
130	Treating Coulomb exchange contributions in relativistic mean field calculations: why and how	N. Van Giai, H. Liang et al.	Nov., 2013
131	Energy-density-functional calculations including proton-neutron mixing	K. Sato, J. Dobaczewski et al.	Aug., 2013

RIKEN NC- AC

	Not Applicable		
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RIKEN MP

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71	Superconformal Indices and M2 Branes	R. Eager, J. Schmude	May, 2013
73	Primordial spectra from sudden turning trajectory	T. Noumi, M. Yamaguchi	Jul., 2013
74	Laplace operators on Sasaki-Einstein manifolds	J. Schmude	Aug., 2013
75	Vacuum Instability in Electric Fields via AdS/CFT: Euler-Heisenberg Lagrangian and Planckian Thermalization	K. Hashimoto, T. Oka	July, 2013
76	Effective gravitational interactions of dark matter axions	T. Noumi, K. Saikawa et al.	Oct., 2013
77	From the Berkovits formulation to the Witten formulation in open superstring field theory	Y. Iimori, T. Noumi et al.	Dec., 2013
78	Non-Lagrangian Theories from Brane Junctions	L. Baoa, V. Mitev et al.	Oct., 2013
79	Notes on Enhancement of Flavor Symmetry and 5d Superconformal Index	M. Taki	Oct., 2013
80	Phase structure of topological insulators by lattice strong-coupling expansion	Y. Araki, T. Kimura et al.	Nov., 2013
81	General conditions ensuring relativistic causality in an effective field theory based on the derivative expansion	Y. Minami, Y. Hidaka	Jan., 2014
82	Note on intersecting branes in topological strings	T. Kimura	Jan., 2014
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84	Current Reflection and Transmission at Conformal Defects	T. Kimura, M. Murata	Feb., 2014
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86	Magnetic instability in AdS/CFT : Schwinger effect and Euler-Heisenberg Lagrangian of Supersymmetric QCD	K. Hashimoto, T. Oka et al.	Mar., 2014
87	On AGT-W Conjecture and q-Deformed W-Algebra	M. Taki	Mar., 2014

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50	Neutrino spectral density at electroweak scale temperature	K. Miura, Y. Hidaka et al.	Jun., 2013
77	Strangeness and charmness content of nucleon from overlap fermions on 2+1-flavor domain-wall fermion configurations	M. Gong, A. Alexandru et al.	Apr., 2013
81	Nambu-Goldstone modes and the Josephson supercurrent in the bilayer quantum Hall system	Y. Hama, G. Tsitsishvili et al.	Apr., 2013
82	Energy-momentum tensor from the Yang-Mills gradient flow	H. Suzuki	Apr., 2013
83	Flow equation of functional renormalization group for three-body scattering problems	Y. Tanizaki	Apr., 2013
84	Phase shifts in $I=2$ Υ -scattering from two lattice approaches	T. Kurth, N. Ishii et al.	May, 2013
86	Spin-Orbit Force from Lattice QCD	K. Murano, N. Ishii et al.	May, 2013

87	Dynamical Mass Generation of Light-vector Mesons from QCD Trace Anomaly	T. Hayata	Jun., 2013
88	Equation of State for Nucleonic Matter and its Quark Mass Dependence from the Nuclear Force in Lattice QCD	T. Inoue, S. Aoki et al.	Jul., 2013
89	SUSY breaking by nonperturbative dynamics in a matrix model for 2D type IIA superstrings	M.G. Endres, T. Kuroki et al.	Aug., 2013
90	Rotating lattice	A. Yamamoto, Y. Hirono	Aug., 2013
91	Vortices and Other Topological Solitons in Dense Quark Matter	M. Eto, Y. Hirono et al.	Aug., 2013
92	Temporal Chiral Spiral in Strong Magnetic Fields	T. Hayata, Y. Hidaka et al.	Aug., 2013
93	Fermionic Functional Renormalization Group Approach to Superfluid Phase Transition	Y. Tanizaki, G. Fejos et al.	Oct., 2013
94	Sign problem and the chiral spiral on the finite-density lattice	R. Fukuda, K. Fukushima et al.	Sep., 2013
95	Domain Walls and Vortices in Chiral Symmetry Breaking	M. Eto, Y. Hirono et al.	Sep., 2013
96	First Numerical Simulations of Anomalous Hydrodynamics	M. Hongo, Y. Hirono et al.	Sep., 2013
98	On the symmetry improved CJT formalism in the $O(4)$ linear sigma model	H. Mao	Sep., 2013
100	Broken spacetime symmetries and elastic variables	T. Hayata, Y. Hidaka	Dec., 2013
101	Fermionic Functional Renormalization Group Approach to Bose-Einstein Condensation of Dimers	Y. Tanizaki	Nov., 2013
102	Cutoff effects on lattice nuclear forces	T. Doi (HAL QCD Collaboration)	Nov., 2013
103	Functional renormalization group approach to conventional theory of superfluidity and beyond	Y. Tanizaki, G. Fejős et al.	Nov., 2013
104	General conditions ensuring relativistic causality in an effective field theory based on the derivative expansion	Y. Minami, Y. Hidaka	Jan., 2014
105	Charmed Tetraquarks T_{cc} and T_{cs} from Dynamical Lattice QCD Simulations	Y. Ikeda, B. Charron et al.	Nov., 2013
106	Universal physics of three bosons with isospin	T. Hyodo, T. Hatsuda et al.	Nov., 2013
107	Fermionic functional renormalization group with multiple regulators and the BCS-BEC crossover	Y. Tanizaki	Feb., 2014
108	A comparative study of two lattice approaches to two-body systems	B. Charron (HAL QCD Collaboration)	Nov., 2013
109	A Lattice Study of Quark and Glue Momenta and Angular Momenta in the Nucleon	M. Deka, T. Doi et al.	Dec., 2013
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115	Schwinger Mechanism with Stochastic Quantization	K. Fukushima, T. Hayata	Mar., 2014
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124	Real-time correlation functions in the $O(N)$ model from the functional renormalization group	K. Kamikado, N. Strodthoff et al.	Feb., 2014
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126	Rabi Oscillations between Atomic and Molecular Condensates Driven with Coherent One-Color Photoassociation	M. Yan, B.J. DeSalvo et al.	Aug., 2013
128	Complex 2D Matrix Model and Its Application to Nc-dependence of Hadron Structures	K. Nawa, S. Ozaki et al.	Jan., 2014
131	Double-spin asymmetry A_{LT} in open charm production.	Y. Hatta, K. Kanazawa et al.	May, 2014
132	Three-gluon contribution to the single spin asymmetry for light hadron production in pp collision	H. Beppu, K. Kanazawa et al.	Dec., 2013
133	Sine Square Deformation and String Theory	T. Tada	Jul., 2013
140	Search for possible bound Tcc and Tcs on the lattice	Y. Ikeda (HAL QCD Coll.)	Oct., 2013
142	QCD effective potential with strong $U(1)_{Yem}$ magnetic fields	S. Ozaki	Nov., 2013
145	Hybrid Monte Carlo on Lefschetz thimbles - A study of the residual sign problem	H. Fujii, D. Honda et al.	Sep., 2013

CNS-REP

91	Mixed harmonic azimuthal correlations in $\sqrt{s_{NN}}=2.76\text{TeV}$ Pb-Pb collisions measured by ALICE at LHC	Y. Hori	Apr., 2013
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