

## List of Publications\*

Univ. Prof. Dr. Christof Gattringer

[185]\* *First-principle simulations of 1+1d quantum field theories at  $\theta = \pi$  and spin-chains*

Tin Sulejmanpasic, Daniel Daniel Göschl, Christof Gattringer

DOI: 10.1103/PhysRevLett.125.201602

Phys. Rev. Lett. 125 (2020) 20, 201602

[184]\* *Density of states approach for lattice gauge theory with a  $\theta$ -term*

Christof Gattringer, Oliver Orasch

DOI: 10.1016/j.nuclphysb.2020.115097

Nucl. Phys. B 957 (2020), 115097

[183]\* *New Canonical and Grand Canonical Density of States Techniques for Finite Density Lattice QCD*

Christof Gattringer, Michael Mandl, Pascal Törek

DOI: 10.3390/particles3010008

Particles 3 (2020) 1, 87-98

[182] *Symmetries of the Light Hadron Spectrum in High Temperature QCD*

C. Rohrhofer, Y. Aoki, G. Cossu, H. Fukaya, C. Gattringer et al.

DOI: 10.22323/1.363.0227

PoS LATTICE2019 (2020), 227

[181]\* *Exploring the worldline formulation of the Potts model*

Christof Gattringer, Daniel Göschl, Pascal Törek

DOI: 10.1016/j.nuclphysb.2020.115008

Nucl. Phys. B 956 (2020), 115008

[180] *Topological terms in abelian lattice field theories*

M. Anosova, C. Gattringer, Daniel Göschl, Tin Sulejmanpasic, Pascal Törek

DOI: 10.22323/1.363.0082

PoS LATTICE2019 (2020), 082

[179]\* *New density of states approaches to finite density lattice QCD*

Christof Gattringer, Michael Mandl, Pascal Törek

DOI: 10.1103/PhysRevD.100.114517

Phys. Rev. D 100 (2019) 11, 114517

[178] *Baryon bag simulation of QCD in the strong coupling limit*

Oliver Orasch, Shailesh Chandrasekharan, Christof Gattringer, Pascal Törek

DOI: 10.22323/1.363.0117

PoS LATTICE2019 (2019), 117

[177]\* *Topology and index theorem with a generalized Villain lattice action – a test in 2d*

Christof Gattringer, Pascal Törek

DOI: 10.1016/j.physletb.2019.07.010

Phys. Lett. B 795 (2019), 581-586

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\* The list of publications is based on my entries in the high energy physics publications database iNSPIRE-HEP: <https://inspirehep.net/> with date 23.11.2020. Publications in refereed journals (106 refereed papers in total) are marked with an asterisk. The database currently lists a total of 4668 citations and an h-factor of 38.

[176]\* *Symmetries of spatial meson correlators in high temperature QCD*

C. Rohrhofer, Y. Aoki, G. Cossu, H. Fukaya, C. Gattringer et al.

DOI: 10.1103/PhysRevD.100.014502

Phys. Rev. D 100 (2019) 1, 014502

[175]\* *Abelian gauge theories on the lattice:  $\theta$ -terms and compact gauge theory with (out) monopoles*

Tin Sulejmanpasic, Christof Gattringer

DOI: 10.1016/j.nuclphysb.2019.114616

Nucl. Phys. B 943 (2019), 114616

[174] *Bag representation for composite degrees of freedom in lattice gauge theories with fermions*

Carlotta Marchis, Christof Gattringer, Oliver Orasch

DOI: 10.22323/1.334.0243

PoS LATTICE2018 (2018), 243

[173] *The critical endpoint in the 2-d  $U(1)$  gauge-Higgs model at topological angle  $\theta = \pi$*

Daniel Göschl, Christof Gattringer, Tin Sulejmanpasic

DOI: 10.22323/1.334.0226

PoS LATTICE2018 (2018), 226

[172] *Low temperature condensation and scattering data*

Oliver Orasch, Christof Gattringer, Mario Giuliani

DOI: 10.22323/1.334.0159

PoS LATTICE2018 (2018), 159

[171]\* *Dual simulation of the 2d  $U(1)$  gauge Higgs model at topological angle  $\theta = \pi$ :*

*Critical endpoint behavior*

Christof Gattringer, Daniel Göschl, Tin Sulejmanpasic

DOI: 10.1016/j.nuclphysb.2018.08.017

Nucl. Phys. B 935 (2018), 344-364

[170]\* *Finite Density Condensation and Scattering Data: A study in  $\varphi^4$  Lattice Field Theory*

Christof Gattringer, Mario Giuliani, Oliver Orasch

DOI: 10.1103/PhysRevLett.120.241601

Phys. Rev. Lett. 120 (2018) 24, 241601

[169]\* *Baryon bags in strong coupling QCD*

Christof Gattringer

DOI: 10.1103/PhysRevD.97.074506

Phys. Rev. D 97 (2018) 7, 074506

[168]\* *Dual representation of lattice QCD with worldlines and worldsheets of abelian color fluxes*

Carlotta Marchis, Christof Gattringer

DOI: 10.1103/PhysRevD.97.034508

Phys. Rev. D 97 (2018) 3, 034508

[167] *New techniques and results for worldline simulations of lattice field theories*

Mario Giuliani, Oliver Orasch, Christof Gattringer

DOI: 10.1051/epjconf/201817507007

EPJ Web Conf. 175 (2018), 07007

- [166] *Worldlines and worldsheets for non-abelian lattice field theories: Abelian color fluxes and Abelian color cycles*  
Christof Gattringer, Daniel Göschl, Carlotta Marchis  
DOI: 10.1051/epjconf/201817511007  
EPJ Web Conf. 175 (2018), 11007
- [165]\* *Kramers–Wannier duality and worldline representation for the  $SU(2)$  principal chiral model*  
Christof Gattringer, Daniel Göschl, Carlotta Marchis  
DOI: 10.1016/j.physletb.2018.01.065  
Phys. Lett. B 778 (2018), 435-441
- [164]\* *Canonical simulations with worldlines: An exploratory study in  $\phi^4_2$  lattice field theory*  
Oliver Orasch, Christof Gattringer  
DOI: 10.1142/S0217751X18500100  
Int. J. Mod. Phys. A 33 (2018) 01, 1850010
- [163]\* *Simulation strategies for the massless lattice Schwinger model in the dual formulation*  
Daniel Göschl, Christof Gattringer, Alexander Lehmann, Christoph Weis  
DOI: 10.1016/j.nuclphysb.2017.09.006  
Nucl. Phys. B 924 (2017), 63-85
- [162]\* *Density of states FFA analysis of  $SU(3)$  lattice gauge theory at a finite density of color sources*  
Mario Giuliani, Christof Gattringer  
DOI: 10.1016/j.physletb.2017.08.014  
Phys. Lett. B 773 (2017), 166-171
- [161] *Remarks on the construction of worm algorithms for lattice field theories in worldline representation*  
Mario Giuliani, Christof Gattringer  
E-Print (<https://arxiv.org/>): 1702.04771 [hep-lat]
- [160] *Phase diagram of the two-dimensional  $O(3)$  model from dual lattice simulations*  
Falk Bruckmann, Christof Gattringer, Thomas Kloiber, Tin Sulejmanpasic  
DOI: 10.22323/1.256.0062  
PoS LATTICE2016 (2016), 062
- [159] *Dualization of non-abelian lattice gauge theory with Abelian Color Cycles (ACC)*  
Carlotta Marchis, Christof Gattringer  
DOI: 10.22323/1.256.0034  
PoS LATTICE2016 (2016), 034
- [158]\* *Abelian color cycles: a new approach to strong coupling expansion and dual representations for non-abelian lattice gauge theory*  
Christof Gattringer, Carlotta Marchis  
DOI: 10.1016/j.nuclphysb.2017.01.025  
Nucl. Phys. B 916 (2017), 627-646
- [157]\* *Developing and testing the density of states FFA method in the  $SU(3)$  spin model*  
Mario Giuliani, Christof Gattringer, Pascal Törek  
DOI: 10.1016/j.nuclphysb.2016.10.005  
Nucl. Phys. B 913 (2016), 627-642

[156]\* *Two-dimensional  $O(3)$  model at nonzero density: From dual lattice simulations to repulsive bosons*

Falk Bruckmann, Christof Gattringer, Thomas Kloiber, Tin Sulejmanpasic

DOI: 10.1103/PhysRevD.94.114503

Phys. Rev. D 94 (2016) 11, 114503

[155]\* *Approaches to the sign problem in lattice field theory*

Christof Gattringer, Kurt Langfeld

DOI: 10.1142/S0217751X16430077

Int. J. Mod. Phys. A 31 (2016) 22, 1643007

[154]\* *Dual representation for 1+1 dimensional fermions interacting with 3+1 dimensional  $U(1)$  gauge fields*

Christof Gattringer, Vasily Sazonov

DOI: 10.1103/PhysRevD.93.034505

Phys. Rev. D 93 (2016) 3, 034505

[153] *Dual representation for massless fermions with chemical potential and  $U(1)$  gauge fields*

Christof Gattringer, Thomas Kloiber, Vasily K. Sazonov

DOI: 10.22323/1.251.0195

PoS LATTICE2015 (2016), 195

[152] *Density of states techniques for lattice field theories using the functional fit approach (FFA)*

Christof Gattringer, Mario Giuliani, Alexander Lehmann, Pascal Törek

DOI: 10.22323/1.251.0194

POS LATTICE2015 (2016), 194

[151] *Finite density  $O(3)$  non-linear sigma model and low energy physics*

Thomas Kloiber, Christof Gattringer, Tin Sulejmanpasic, Falk Bruckmann

DOI: 10.22323/1.251.0210

PoS LATTICE2015 (2016), 210

[150]\* *Grand Canonical Ensembles, Multiparticle Wave Functions, Scattering Data, and Lattice Field Theories*

Falk Bruckmann, Christof Gattringer, Thomas Kloiber, Tin Sulejmanpasic

DOI: 10.1103/PhysRevLett.115.231601

Phys. Rev. Lett. 115 (2015) 23, 231601

[149]\* *Dual simulation of the two-dimensional lattice  $U(1)$  gauge-Higgs model with a topological term*

Christof Gattringer, Thomas Kloiber, Michael Müller-Preussker

DOI: 10.1103/PhysRevD.92.114508

Phys. Rev. D 92 (2015) 11, 114508

[148]\* *Dual lattice representations for  $O(N)$  and  $CP(N-1)$  models with a chemical potential*

Falk Bruckmann, Christof Gattringer, Thomas Kloiber, Tin Sulejmanpasic

DOI: 10.1016/j.physletb.2015.08.015, 10.1016/j.physletb.2015.10.033 (erratum)

Phys. Lett. B 749 (2015), 495-501, Phys. Lett. B 751 (2015), 595-595 (erratum)

[147]\* *Density of states method for the  $Z_3$  spin model*

Christof Gattringer, Pascal Törek

DOI: 10.1016/j.physletb.2015.06.017

Phys. Lett. B 747 (2015), 545-550

[146]\* *Solving the sign problems of the massless lattice Schwinger model with a dual formulation*

Christof Gattringer, Thomas Kloiber, Vasily Sazonov

DOI: 10.1016/j.nuclphysb.2015.06.017

Nucl. Phys. B 897 (2015), 732-748

[145] *Dual simulation of finite density lattice QED at large mass*

Michael Kniely, Christof Gattringer

DOI: 10.22323/1.214.0206

PoS LATTICE2014 (2015), 206

[144] *Condensation phenomena in two-flavor scalar QED at finite chemical potential*

Alexander Schmidt, Philippe de Forcrand, Christof Gattringer

DOI: 10.22323/1.214.0209

PoS LATTICE2014 (2015), 209

[143]\* *Generalized quark number susceptibilities from fugacity expansion at finite chemical potential for  $N_f = 2$  Wilson fermions*

Christof Gattringer, Hans-Peter Schadler

DOI: 10.1103/PhysRevD.91.074511

Phys. Rev. D 91 (2015) 7, 074511

[142]\* *Distribution of Canonical Determinants in QCD*

Andrei Alexandru, C. Gattringer, H. -P. Schadler, K. Splittorff, J.J.M. Verbaarschot

DOI: 10.1103/PhysRevD.91.074501

Phys. Rev. D 91 (2015) 7, 074501

[141] *Scalar QED<sub>2</sub> with a topological term – a lattice study in a dual representation*

Thomas Kloiber, Christof Gattringer

DOI: 10.22323/1.214.0345

PoS LATTICE2014 (2014), 345

[140] *The  $Z_3$  model with the density of states method*

Ydalia Delgado Mercado, Pascal Törek, Christof Gattringer

DOI: 10.22323/1.214.0203

PoS LATTICE2014 (2015), 203

[139] *Quark number susceptibilities at finite chemical potential from fugacity expansion*

Hans-Peter Schadler, Christof Gattringer

DOI: 10.22323/1.214.0231

PoS LATTICE2014 (2014), 231

[138] *Taylor- and fugacity expansion for the effective center model of QCD at finite density*

Eva Grünwald, Ydalia Delgado Delgado, Christof Gattringer

DOI: 10.22323/1.187.0448

PoS LATTICE2013 (2014), 448

[137]\* *Taylor and fugacity expansion for the effective  $Z_3$  spin model of QCD at finite density*

Eva Grünwald, Ydalia Delgado Mercado, Christof Gattringer

DOI: 10.1142/S0217751X1450198X

Int. J. Mod. Phys. A 29 (2014) 32, 1450198

[136] *New developments for dual methods in lattice field theory at non-zero density*

Christof Gattringer

DOI: 10.22323/1.187.0002

PoS LATTICE2013 (2014), 002

[135]\* *Fractality and other properties of center domains at finite temperature:*

*SU(3) lattice gauge theory*

Gergely Endrodi, Christof Gattringer, Hans-Peter Schadler

DOI: 10.1103/PhysRevD.89.054509

Phys. Rev. D 89 (2014) 5, 054509

[134] *A test of Taylor- and modified Taylor-expansion*

Max Wilfling, Christof Gattringer

DOI: 10.22323/1.187.0452

PoS LATTICE2013 (2014), 452

[133] *Solving the sign problem of two flavor scalar electrodynamics at finite chemical potential*

Ydalia Delgado, Christof Gattringer, Alexander Schmidt

DOI: 10.22323/1.187.0147

PoS LATTICE2013 (2014), 147

[132] *Dual Methods for Lattice Field Theories at Finite Density*

Thomas Kloiber, Christof Gattringer

DOI: 10.22323/1.187.0206

PoS LATTICE2013 (2014), 206

[131] *Local Polyakov loop domains and their fractality*

Hans-Peter Schadler, Gergely Endródi, Christof Gattringer

DOI: 10.22323/1.187.0134

PoS LATTICE2013 (2014), 134

[130]\* *Effective Lagrangian for the Polyakov line on a lattice*

Dmitri Diakonov, Victor Petrov, Hans-Peter Schadler, Christof Gattringer

DOI: 10.1007/JHEP11(2013)207

JHEP 11 (2013), 207

[129]\* *Dual Lattice Simulation of the Abelian Gauge-Higgs Model at Finite Density:*

*An Exploratory Proof of Concept Study*

Ydalia Delgado Mercado, Christof Gattringer, Alexander Schmidt

DOI: 10.1103/PhysRevLett.111.141601

Phys. Rev. Lett. 111 (2013) 14, 141601

[128]\* *Spectroscopy in finite density lattice field theory: An exploratory study in the relativistic Bose gas*

Christof Gattringer, Thomas Kloiber  
DOI: 10.1016/j.physletb.2013.01.068  
Phys. Lett. B 720 (2013), 210-214

[127]\* *Surface worm algorithm for abelian Gauge-Higgs systems on the lattice*

Ydalia Delgado Mercado, Christof Gattringer, Alexander Schmidt  
DOI: 10.1016/j.cpc.2013.02.001  
Comput. Phys. Commun. 184 (2013), 1535-1546

[126] *Monte Carlo simulation of abelian gauge-Higgs lattice models using dual representation*

Alexander Schmidt, Ydalia Delgado Mercado, Christof Gattringer  
DOI: 10.22323/1.164.0098  
PoS LATTICE2012 (2012), 098

[125] *Flux simulation of the SU(3) spin model at finite chemical potential*

Ydalia Delgado, Christof Gattringer  
DOI: 10.5506/APhysPolBSupp.5.1033  
Acta Phys. Polon. Supp. 5 (2012), 1033-1038

[124]\* *Gauge and matter fields as surfaces and loops - an exploratory lattice study of the Z(3) Gauge-Higgs model*

Christof Gattringer, Alexander Schmidt  
DOI: 10.1103/PhysRevD.86.094506  
Phys. Rev. D 86 (2012), 094506

[123]\* *Lattice study of the Silver Blaze phenomenon for a charged scalar  $\phi^4$  field*

Christof Gattringer, Thomas Kloiber  
DOI: 10.1016/j.nuclphysb.2012.12.005  
Nucl. Phys. B 869 (2013), 56-73

[122]\* *Free energy for parameterized Polyakov loops in SU(2) and SU(3) lattice gauge theory*

Dmitri Diakonov, Christof Gattringer, Hans-Peter Schadler  
DOI: 10.1007/JHEP08(2012)128  
JHEP 08 (2012), 128

[121]\* *Monte Carlo simulation of the SU(3) spin model with chemical potential in a flux representation*

Ydalia Delgado Mercado, Christof Gattringer  
DOI: 10.1016/j.nuclphysb.2012.05.009  
Nucl. Phys. B 862 (2012), 737-750

[120]\* *Properties of canonical determinants and a test of fugacity expansion for finite density lattice QCD with Wilson fermions*

Julia Danzer, Christof Gattringer  
DOI: 10.1103/PhysRevD.86.014502  
Phys. Rev. D 86 (2012), 014502

[119]\* *Worm algorithms for the 3-state Potts model with magnetic field and chemical potential*

Ydalia Delgado Mercado, Hans Gerd Evertz, Christof Gattringer

DOI: 10.1016/j.cpc.2012.04.014

Comput. Phys. Commun. 183 (2012), 1920-1927

[118]\* *No coincidence of center percolation and deconfinement in  $SU(4)$  lattice gauge theory*

Michael Dirnberger, Christof Gattringer, Axel Maas

DOI: 10.1016/j.physletb.2012.09.001

Phys. Lett. B 716 (2012), 465-469

[117] *The QCD Phase Diagram with Effective Theories*

Ydalia Delgado, Hans Gerd Evertz, Christof Gattringer, Daniel Göschl

DOI: 10.22323/1.139.0190

PoS LATTICE2011 (2011), 190

[116] *Solving the Complex Phase Problem in a QCD Related Model*

Ydalia Delgado, Hans Gerd Evertz, Christof Gattringer

DOI: 10.5506/APhysPolBSupp.4.703

Acta Phys. Polon. Supp. 4 (2011), 703-708

[115] *Simulation of the 3-state Potts model with chemical potential*

Ydalia Delgado Mercado, Hans Gerd Evertz, Christof Gattringer

DOI: 10.1063/1.3575116

AIP Conf. Proc. 1343 (2011), 619-619

[114]\* *Flux representation of an effective Polyakov loop model for QCD thermodynamics*

Christof Gattringer

DOI: 10.1016/j.nuclphysb.2011.04.018

Nucl. Phys. B 850 (2011), 242-252

[113]\* *The QCD phase diagram according to the center group*

Ydalia Delgado Mercado, Hans Gerd Evertz, Christof Gattringer

DOI: 10.1103/PhysRevLett.106.222001

Phys. Rev. Lett. 106 (2011), 222001

[112] *Dual condensate and QCD phase transition*

Bo Zhang, Falk Bruckmann, Christof Gattringer, Zoltan Fodor, Kalman K. Szabo

DOI: 10.1063/1.3574966

AIP Conf. Proc. 1343 (2011), 170-172

[111]\* *Center clusters in the Yang-Mills vacuum*

Christof Gattringer, Alexander Schmidt

DOI: 10.1007/JHEP01(2011)051

JHEP 01 (2011), 051

[110] *Center clusters and their percolation properties in lattice QCD*

Julia Danzer, Christof Gattringer, Szabolcs Borsanyi, Zoltan Fodor

DOI: 10.22323/1.105.0176

PoS LATTICE2010 (2010), 176



[109] *Coherent center domains from local Polyakov loops*

Szabolcs Borsanyi, Julia Danzer, Zoltan Fodor, Christof Gattringer, Alexander Schmidt

DOI: 10.1088/1742-6596/312/1/012005

J. Phys. Conf. Ser. 312 (2011), 012005

[108]\* *Coherent center domains in  $SU(3)$  gluodynamics and their percolation at  $T_c$*

Christof Gattringer

DOI: 10.1016/j.physletb.2010.05.013

Phys. Lett. B 690 (2010), 179-182

[107] *Dynamical Lattice QCD with Ginsparg-Wilson-Type Fermions*

T. Burch, C. Ehmman, G. Engel, C. Gattringer, M. Göckeler et al.

DOI: 10.1007/978-3-642-13872-0\_37

Contribution to: 4th Joint HLRB and KONWIHR Review and Results Workshop, 439-450

[106] *Fundamental challenges of QCD 2009 - Proceedings, 47. Internationale Universitätswochen für theoretische Physik, Schladming, Austria, 2009*

C. Gattringer (ed.), L.Y. Glozman (ed.), C.B. Lang (ed.)

DOI: 10.1016/j.nuclphysbps.2009.10.009

Nucl. Phys. B Proc. Suppl. 195 (2009), 1-296

[105]\* *Quantum chromodynamics on the lattice*

Christof Gattringer, Christian B. Lang

DOI: 10.1007/978-3-642-01850-3

Lect. Notes Phys. 788 (2010), 1-343 (Reprint Beijing University Press, 2018)

[104] *Baryon axial charges from Chirally Improved fermions: First results*

Georg Engel, Christof Gattringer, Leonid Ya. Glozman, C.B. Lang, Markus Limmer et al.

DOI: 10.22323/1.091.0135

PoS LAT2009 (2009), 135

[103] *Properties of canonical fermion determinants with a fixed quark number*

Julia Danzer, Christof Gattringer, Ludovit Liptak

DOI: 10.22323/1.091.0185

PoS LAT2009 (2009), 185

[102] *Excited hadrons in  $N_f = 2$  QCD*

G. Engel, C. Gattringer, C.B. Lang, M. Limmer, D. Mohler et al.

DOI: 10.22323/1.091.0088

PoS LAT2009 (2009), 088

[101]\* *A study of the sign problem for lattice QCD with chemical potential*

Julia Danzer, Christof Gattringer, Ludovit Liptak, Marina Marinkovic

DOI: 10.1016/j.physletb.2009.11.004

Phys. Lett. B 682 (2009), 240-245

[100]\* *Fermionic boundary conditions and the finite temperature transition of QCD*

Erek Bilgici, Falk Bruckmann, Julia Danzer, Christof Gattringer, Christian Hagen et al.

DOI: 10.1007/s00601-009-0068-x

Few Body Syst. 47 (2010), 125-135

[99]\* *Canonical fermion determinants in lattice QCD: Numerical evaluation and properties*

Erek Bilgici, Julia Danzer, Christof Gattringer, C.B. Lang, Ludovit Liptak

DOI: 10.1016/j.physletb.2011.01.035

Phys. Lett. B 697 (2011) 1, 85-89

[98]\* *Adjoint quarks and fermionic boundary conditions*

Erek Bilgici, Christof Gattringer, Ernst-Michael Ilgenfritz, Axel Maas

DOI: 10.1088/1126-6708/2009/11/035

JHEP 11 (2009), 035

[97] *Dressed Polyakov loops and center symmetry from Dirac spectra*

Falk Bruckmann, Christian Hagen, Erek Bilgici, Christof Gattringer

DOI: 10.22323/1.077.0054

PoS CONFINEMENT8 (2008), 054

[96]\* *Hadron Spectroscopy with Dynamical Chirally Improved Fermions*

Christof Gattringer, Christian Hagen, C.B. Lang, Markus Limmer, Daniel Mohler et al.

DOI: 10.1103/PhysRevD.79.054501

Phys. Rev. D 79 (2009), 054501

[95]\* *Chiral symmetry and spectral properties of the Dirac operator in  $G_2$  Yang-Mills Theory*

Julia Danzer, Christof Gattringer, Axel Maas

DOI: 10.1088/1126-6708/2009/01/024

JHEP 01 (2009), 024

[94] *Dual condensate, dressed Polyakov loops and center symmetry from Dirac spectra*

Falk Bruckmann, Christian Hagen, Erek Bilgici, Christof Gattringer

DOI: 10.22323/1.066.0262

PoS LATTICE2008 (2008), 262

[93] *Spectroscopy with dynamical Chirally Improved quarks*

Christof Gattringer, C.B. Lang, Markus Limmer, Thilo Maurer, Daniel Mohler et al.

DOI: 10.22323/1.066.0093

PoS LATTICE2008 (2008), 093

[92]\* *Winding expansion techniques for lattice QCD with chemical potential*

Julia Danzer, Christof Gattringer

DOI: 10.1103/PhysRevD.78.114506

Phys. Rev. D 78 (2008), 114506

[91]\* *Static quark-antiquark potential and Dirac eigenvector correlators*

Erek Bilgici, Christof Gattringer

DOI: 10.1088/1126-6708/2008/05/030

JHEP 05 (2008), 030

[90]\* *New overlap construction of Weyl fermions on the lattice*

Christof Gattringer, Markus Pak

DOI: 10.1016/j.nuclphysb.2008.03.015

Nucl. Phys. B 801 (2008), 353-360

[89]\* *Derivative sources in lattice spectroscopy of excited mesons*

Christof Gattringer, Leonid Ya. Glozman, C.B. Lang, Daniel Mohler, Sasa Prelovsek

DOI: 10.1103/PhysRevD.78.034501

Phys. Rev. D 78 (2008), 034501

[88]\* *Dual quark condensate and dressed Polyakov loops*

Erek Bilgici, Falk Bruckmann, Christof Gattringer, Christian Hagen

DOI: 10.1103/PhysRevD.77.094007

Phys. Rev. D 77 (2008), 094007

[87]\* *Excited hadrons on the lattice: State of the art and future challenges*

Christof Gattringer

DOI: 10.1007/978-3-540-85144-8\_1

Eur. Phys. J. A 35 (2008) 3, 1-6

[86] *Remarks on left-handed lattice fermions*

Christof Gattringer, Markus Pak

DOI: 10.22323/1.042.0081

PoS LATTICE2007 (2007), 081

[85] *Fermion loop simulations in 2-d lattice theories: Results and limitations*

Markus Limmer, Christof Gattringer, Verena Hermann

DOI: 10.22323/1.042.0268

PoS LATTICE2007 (2007), 268

[84] *Excited State Spectroscopy in the Lattice Gross-Neveu Model*

Julia Danzer, Christof Gattringer

DOI: 10.22323/1.042.0092

PoS LATTICE2007 (2007), 092

[83] *Smearing and filtering methods in lattice QCD: A Quantitative comparison*

Stefan Solbrig, Falk Bruckmann, Christof Gattringer, Ernst-Michael Ilgenfritz, Michael Müller-Preussker et al.

DOI: 10.22323/1.042.0334

PoS LATTICE2007 (2007), 334

[82] *Thin and dressed Polyakov loops from spectral sums of lattice differential operators*

Christian Hagen, Falk Bruckmann, Erek Bilgici, Christof Gattringer

DOI: 10.22323/1.042.0289

PoS LATTICE2007 (2007), 289

[81] *Dynamical Chirally Improved Quarks: First Results for Hadron Masses*

R. Frigori, Ch. Gattringer, C.B. Lang, M. Limmer, T. Maurer et al.

DOI: 10.22323/1.042.0114

PoS LATTICE2007 (2007), 114

[80] *Meson spectroscopy with derivative quark sources*

Christof Gattringer, Leonid Ya. Glozman, Christian B. Lang, Daniel Mohler, Sasa Prelovsek

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