

The 38th International Symposium on Lattice Field Theory

Monday 26 July 2021

QCD at nonzero Temperature and Density (13:00 - 15:00)

-Conveners: Biagio Lucini

time	[id] title	presenter
13:00	[98] The 't Hooft-Veneziano limit of the Polyakov loop models	BORISENKO, Oleg
13:15	[361] Dual Polyakov loop model at finite density: phase diagram and screening masses	CHELNOKOV, Volodymyr
13:30	[314] Coarse Graining in Effective Theories of Lattice QCD in Low Dimensions	KONRAD, Christoph
13:45	[429] Hamiltonian Lattice QCD from Strong Coupling Expansion	UNGER, Wolfgang
14:00	[606] Heavy-dense QCD at fixed baryon number without a sign problem	WENGER, Urs
14:15	[522] Thimble regularisation of YM fields: crunching a hard problem.	DI RENZO, Francesco
14:30	[223] Localisation of Dirac modes in finite-temperature \mathbb{Z}_2 gauge theory on the lattice	BARANKA, György
14:45	[61] Symmetries of temporal correlators and the nature of hot QCD.	GLOZMAN, Leonid

QCD at nonzero Temperature and Density (21:00 - 23:00)

-Conveners: Alexei Bazavov

time	[id] title	presenter
21:00	[447] Lee-Yang singularities, series expansions and the critical point	Prof. BASAR, Gokce
21:15	[324] Chromo-electric screening length in 2+1 flavor QCD	PETRECZKY, Peter
21:30	[515] Static potential at non-zero temperature from fine lattices	HOYING, Daniel
21:45	[476] Bottomonia screening masses in 2+1 flavor QCD	SHARMA, Sayantan
22:00	[384] Critical endpoints in (2+1)- and 4-flavor QCD with Wilson-Clover fermions	Dr OHNO, Hiroshi
22:15	[299] Inhomogeneous phases in the chiral Gross-Neveu model on the lattice	NONAKA, Chiho
22:30	[46] QCD viscosity by combining the gradient flow and sparse modeling methods	ITOU, Etsuko

Tuesday 27 July 2021

QCD at nonzero Temperature and Density (05:00 - 08:00)

-Conveners: Jana N. Guenther; Claudia Ratti

time	[id] title	presenter
05:00	[12] A Fresh Look at the Chemical Potential on the lattice	Prof. GAVAI, Rajiv V
05:15	[204] With complex Langevin towards the QCD phase diagram	JAEGER, Benjamin
05:30	[243] New approach to lattice QCD at finite density: reweighting without an overlap problem	PASZTOR, Attila
05:45	[588] Radius of convergence at finite chemical potential with rooted staggered fermions	KATZ, Sandor
06:00	[249] Effect of stout smearing on the phase diagram from multiparameter reweighting in lattice QCD	KAPÁS, Kornél
06:15	[568] Taylor expansions and Padé approximations for Lefschetz thimbles and beyond	ZAMBELLO, Kevin
06:30	[573] Lee-Yang edge singularities in lattice QCD : A systematic study of singularities in the complex μ_B plane using rational approximations.	Ms SINGH, Simran
06:45	[577] Lee-Yang edge singularities in 2+1 flavor QCD with imaginary chemical potential.	NICOTRA, Guido
07:00	[113] Lattice QCD equation of state at finite chemical potential from an alternative expansion scheme	PAROTTO, Paolo
07:15	[162] Lattice QCD Equation of State for $\mu_B \neq 0$ by resumming the Taylor expansion	Dr HEGDE, Prasad
07:30	[170] Corrections to the hadron resonance gas from lattice QCD and their effect on fluctuation-ratios at finite density	PESZNYAK, David
07:45	[658] Continuous temperature sampling in a single Monte-Carlo simulation	JUNNARKAR, Parikshit

QCD at nonzero Temperature and Density (13:00 - 15:00)

-Conveners: Victor Braguta

time	[id] title	presenter
13:00	[73] Quark Density in Lattice QCD at Imaginary and Real Chemical Potential	ROGALEV, Roman
13:15	[489] Thermal QCD phase transition and its scaling window from Wilson twisted mass fermions	KOTOV, Andrey
13:30	[422] The QCD Deconfinement Critical Point for $N_f=2$ Flavors of Staggered Fermions	KAISER, Reinhold
13:45	[411] Lattice QCD at imaginary chemical potential in the chiral limit.	GOSWAMI, Jishnu
14:00	[454] The light Roberge-Weiss tricritical endpoint at imaginary isospin chemical potential	WINTEROWD, Christopher
14:15	[276] QCD thermodynamics at nonzero isospin asymmetry	BRANDT, Bastian
14:30	[399] Searching for the BCS phase at nonzero isospin asymmetry	CUTERI, Francesca
14:45	[541] Thermal QCD with external imaginary electric fields on the lattice	ENDRODI, Gergely

QCD at nonzero Temperature and Density (21:00 - 23:00)**-Conveners: Kazuyuki Kanaya**

time	[id] title	presenter
21:00	[122] Funny business from the large N_c finite temperature crossover	DEGRAND, Thomas
21:15	[13] Semiclassical ensembles of instanton-dyons describe the deconfinement and chiral phase transitions, in the usual and deformed QCD	Prof. SHURYAK, Edward
21:30	[309] The sign problem, \mathcal{PT} symmetry, and exotic phases	OGILVIE, Michael
21:45	[93] \mathcal{PT} symmetry and patterns in finite-density QCD	SCHINDLER, Stella
22:00	[130] Conjecture about the QCD Phase Diagram	BIETENHOLZ, Wolfgang
22:15	[183] Single static-quark system above T_c investigated by energy-momentum tensor in SU(3) Yang-Mills theory	KITAZAWA, Masakiyo
22:30	[424] Particle density probability distribution function and center symmetry breaking in finite density lattice gauge theories	EJIRI, Shinji
22:45	[383] Worldvolume tempered Lefschetz thimble method and its error estimation	MATSUMOTO, Nobuyuki

Wednesday 28 July 2021

QCD at nonzero Temperature and Density (05:00 - 08:00)

-Conveners: Claudio Bonati; Sayantan Sharma

time	[id] title	presenter
05:00	[82] Finite temperature QCD with physical $(u/d, s, c)$ domain-wall quarks	Prof. CHIU, Ting-Wai
05:15	[334] 2+1 flavor fine lattice simulation at finite temperature with domain wall fermions	AOKI, Yasumichi
05:30	[376] Axial U(1) symmetry at high temperatures in $N_f=2+1$ lattice QCD with chiral fermions	SUZUKI, Kei
05:45	[327] Correlated Dirac Eigenvalues and Axial Anomaly in Chiral Symmetric QCD	ZHANG, Yu
06:00	[416] Correlated Dirac eigenvalues around the transition temperature on $N_{\tau}=8$ lattices	HUANG, Wei-Ping
06:30	[292] Topology in high-T QCD via staggered spectral projectors	BONANNO, Claudio
06:45	[164] Localised Dirac eigenmodes and Goldstone's theorem at finite temperature	GIORDANO, Matteo
07:00	[611] Localization at the quenched SU(3) phase transition	Prof. KOVACS, G. Tamas
07:15	[549] Effective Dimensions of Dirac Modes in IR Phase of QCD	HORVATH, Ivan
07:30	[387] Meson spectroscopy at increasing temperatures using anisotropic ensembles	CHAVES, Sergio
07:45	[163] Computation of QCD meson screening masses at high temperature	LAUDICINA, Davide

QCD at nonzero Temperature and Density (13:00 - 14:00)

-Conveners: Gergely Endrodi

time	[id] title	presenter
13:00	[149] Lattice study of the confinement/deconfinement transition in rotating gluodynamics	ROENKO, Artem
13:15	[516] Study of the EoS of dense QCD in an external magnetic field	KOLOMOYETS, Natalia
13:30	[111] Lattice QCD in strong magnetic background	MAIO, Lorenzo
13:45	[380] Lattice QCD with an inhomogeneous magnetic field background	MARQUES VALOIS, Adeilton Dean

QCD at nonzero Temperature and Density (21:00 - 23:00)

-Conveners: Akio TOMIYA

time	[id] title	presenter
21:00	[486] Normalizing flows for the real-time sign problem	YAMAUCHI, Yukari
21:15	[150] Flavor number dependence of QCD at finite density by the complex Langevin method	NAMEKAWA, Yusuke
21:30	[339] Perturbative predictions for color superconductivity on the lattice	YOKOTA, Takeru
21:45	[335] Color superconductivity in a small box: a complex Langevin study	TSUTSUI, Shoichiro

22:00	[400] Chiral properties of (2+1)-flavor QCD in background magnetic fields at zero temperature	WANG, Xiaodan
22:15	[395] Fluctuations and correlations of net baryon number, electric charge and strangeness in a background magnetic field	Dr LI, Shengtai
22:30	[32] Persistent homology analysis for QCD effective models	KASHIWA, Kouji
22:45	[157] Confinement-Deconfinement transition and Z_2 symmetry in Z_2 +Higgs theory	SHAIKH, Sabiar

Thursday 29 July 2021

QCD at nonzero Temperature and Density (05:00 - 08:00)

-Conveners: Heng-Tong Ding; Hiroshi Ohno

time	[id] title	presenter
05:00	[84] Nonperturbative excitations in overoccupied gluon plasmas	BOGUSLAVSKI, Kirill
05:15	[219] Transverse momentum broadening in real-time lattice simulations of the glasma	SCHUH, Daniel
05:30	[102] Charting the scaling region of the Ising universality class in finite temperature QCD	SORBA, Marianna
05:45	[58] Imprint of chiral symmetry restoration on the Polyakov loop and the heavy quark free energy	Dr CLARKE, David Anthony
06:00	[139] Critical behavior towards the chiral limit at vanishing and non-vanishing chemical potentials	Dr SARKAR, Mugdha
06:15	[151] Roberge-Weiss transitions at imaginary isospin chemical potential	CHABANE, Amine
06:30	[565] The upper right corner of the Columbia plot with staggered fermions	KARA, Ruben
06:45	[391] Deconfinement critical point of a heavy quark effective lattice theory	Mr PHAM, Anh Quang
07:00	[222] Chiral phase transition temperature in 3-flavor QCD.	Ms SHARMA, Sipaz
07:15	[448] The QCD chiral phase transition for different numbers of quark flavours	PHILIPSEN, Owe
07:30	[275] Inhomogeneous phases in 1+1 dimensional Gross-Neveu models at finite number of flavors on the lattice	MANDL, Michael
07:45	[285] Absence of inhomogeneous phases in the $2+1$ -dim. Gross-Neveu model with chiral imbalance	WINSTEL, Marc

Friday 30 July 2021

QCD at nonzero Temperature and Density (05:00 - 08:00)

-Conveners: **Maria Paola Lombardo; Alexander Rothkopf**

time	[id] title	presenter
05:00	[245] Estimation of the photon emission rate of the quark-gluon plasma	TÖRÖK, Csaba
05:15	[409] Deep inelastic scattering off quark-gluon plasma and its photon emissivity	MEYER, Harvey
05:30	[293] Electromagnetic conductivity of quark-gluon plasma at non-zero baryon density	TRUNIN, Anton
05:45	[116] An exploration of sphaleron rate in lattice QCD	Dr SHU, Hai-Tao
06:00	[160] Heavy quark diffusion in an overoccupied gluon plasma	PEURON, Jarkko
06:15	[382] Chromo-electric and chromo-magnetic correlators at high temperature from gradient flow	MAYER-STEUDTE, Julian
06:30	[138] Heavy quark momentum diffusion from the lattice using gradient flow	ALTENKORT, Luis
06:45	[512] In-medium static quark potential from spectral functions on realistic HISQ ensembles	PARKAR, Gaurang
07:00	[502] The complex potential from 2+1 flavor QCD from HTL inspired approach	BALA, Dibyendu
07:15	[561] Thermal interquark potentials for bottomonium using NRQCD from the HAL QCD method	SPRIGGS, Thomas
07:30	[542] Spectral Reconstruction in NRQCD using the Backus-Gilbert Method	PAGE, Ben
07:45	[545] Reconstruction of bottomonium spectral functions in thermal QCD using Kernel Ridge Regression	Mr OFFLER, Samuel