Monday, 29 July 2024

Plenary (09:00 - 10:30)

-Conveners: Andreas Kronfeld

time	title	presenter
09:00	Opening	HANDS, Simon
09:05	Status and outlook of quark flavour physics	TSANG, J. Tobias
09:50	Recent highlights from the LHCb experiment	WHITEHEAD, Mark
10:20	Welcome	JONES, Tim

Break and walk to Guild of Students (10:30 - 11:15)

Algorithms and artificial intelligence: LT2 (11:15 - 12:55)

-Conveners: Scott Lawrence

time	title	presenter
11:15	Machine Learning Estimation on the trace of inverse Dirac operator using the Gradient Boosting Decision Tree Regression	CHOI, Benjamin J.
11:35	Applying the Triad network representation to four-dimensional ATRG method	SUGIMOTO, Yuto
11:55	Gauge symmetric transformer for lattice gauge theory	TOMIYA, Akio
12:15	Exploring Generative Networks for Manifolds with Non-Trivial Topology	CHEN, Shiyang
12:35	Improvement of Heatbath Algorithm in Lattice Field Theory using Generative Al	SINGHA, Ankur

Hadronic and nuclear spectrum and interactions: LT1 (11:15 - 13:15)

-Conveners: Christopher Thomas

time	title	presenter
11:15	Study of the pion-mass dependence of \$\rho\$ -meson properties in lattice QCD	YU, Kang
11:35	Physical-mass calculation of \$\rho(770)\$ and \$K^*(892)\$ resonance parameters via \$\pi\$ and \$K \pi\$ scattering amplitudes from lattice QCD	PITANGA LACHINI, Nelson
11:55	Implementing the relativistic-field-theory finite-volume formalism across all three-pion isospins	ALOTAIBI, Athari
12:15	Three-particle formalism for multiple channels: the $\eta\pi\pi$ + KK π system in isosymmetric QCD	SHARPE, Stephen
12:35	Three-meson scattering amplitudes with physical quark masses	ROMERO-LOPEZ, Fernando
12:55	\$\pi\pi\pi\$ scattering	YAN, Haobo

QCD at non-zero temperature: TR5 (11:15 - 13:15)

-Conveners: Anders Tranberg

time title	presenter
11:15 In- and out-of-equilibrium aspects of the Chiral Magnetic Effect	GARNACHO-VELASCO, Eduardo
11:35 Baryon electric charge correlation as a magnetometer of QCD	GU, Jin-Biao
11:55 Shear viscosity from quenched to full lattice QCD	PAVAN, Pavan
12:15 Thermal photon production rate from lattice QCD	BALA, Dibyendu

12:35 Adjoint chromoelectric correlators for heavy quarkonium diffusion	MAYER-STEUDTE, Julian
12:55 An update on the determination of the sphaleron rate in finite temperature QCD	D'ANGELO, Francesco

Quantum computing and quantum information: TR7 (11:15 - 13:15)

-Conveners: Zohreh Davoudi

time	title	presenter
11:15	Quantum Hamiltonian Truncation	INGOLDBY, James
11:35	Quantum Error Correction and Z(2) Lattice Gauge Theories	KIM, Seyong
11:55	Noise-aware mixed state quantum computation and its applications	CLEMENTE, Giuseppe
12:15	Gauge field digitization in the Hamiltonian limit	PESZNYÁK, Dávid
12:35	Euclidean Monte Carlo informed ground state preparation for quantum simulation	GUPTA, Navya
12:55	Quantum Many-Body Scars in 2+1D Gauge Theories	PINTO BARROS, Joao

Quark and lepton flavour physics: LT3 (11:15 - 13:15)

time	title	presenter
11:15	Status of the ETMC calculation of \$a_\mu^{HVP}\$ in isoQCD	GAROFALO, Marco
11:35	\$\pi^0\to \gamma^\ast \gamma^\ast\$ transition form factor and the pion pole contribution to \$a_{\mu}\$ on CLS ensembles	KOPONEN, Jonna
11:55	Status of the RBC/UKQCD HVP program	LEHNER, Christoph
12:15	Analysis of g-2 long distance two-pion correlators for the reconstruction of light vector correlators	MCKEON, Joe
12:35	Hadronic vacuum polarization contribution to the muon g-2 at short and long distances	KUBERSKI, Simon
12:55	Hadronic \$\tau\$ data and Lattice QCD+QED simulations for the muon \$g-2\$	BRUNO, Mattia

Structure of hadrons and nuclei: Flex2 (11:15 - 13:15)

-Conveners: Anthony Grebe

time	title	presenter
11:15	Nucleon axial, tensor, and scalar charges and \$\sigma\$-terms from lattice QCD	IONA, Christos
11:35	Flavor diagonal charges of the nucleon and the sigma term	GUPTA, Rajan
11:55	The isoscalar non-singlet axial form factor of the nucleon from lattice QCD	BARONE, Alessandro
	How much strangeness is needed for the axial-vector form factor of the nucleon?	HERMSEN, Felix
12:35	Proton and neutron electromagnetic form factors using Nf=2+1+1 twisted-mass fermions with physical values of the quark masses	PRASAD, Bhavna
12:55	Nucleon electromagnetic form factors at large momentum from Lattice QCD	SYRITSYN, Sergey

Theoretical developments: TR4 (11:15 - 13:15)

-Conveners: Richard Brower

time title	presenter
11:15 Effective mass-improvement of heavy valence Wilson quarks	FRITZSCH, Patrick

	Exact space-time symmetry conservation and automatic mesh refinement for classical lattice field theory	ROTHKOPF, Alexander
11:55	The constraint potential for fermionic order parameters	MARKO, Gergely
12:15	The constraint potential in the chiral Gross-Neveu model	PANNULLO, Laurin
	Symplectic quantization: a new deterministic approach to the dynamics of quantum fields inspired by statistical mechanics	GIACHELLO, Martina
12:55 v	Weyl Fermions on a Finite Lattice	SEN, Srimoyee

Vacuum structure and confinement: TR6 (11:15 - 13:15)

-Conveners: Biagio Lucini

time	title	presenter
11:15	The gluino condensate of large-\$N\$ SUSY Yang-Mills	BONANNO, Claudio
	Beyond Nambu-Goto corrections for the Effective String Theory of SU(N) lattice gauge theories	PANFALONE, Dario
11:55	SU(6) model revisited	YAMAOKA, Tatsuya
	Test of a two-level algorithm for the glueball spectrum in \$SU(N_c)\$ Yang-Mills theory.	FALZETTI, Andrea
12:35	The imaginary-theta dependence of the SU(N) spectrum	VADACCHINO, Davide
	Numerical evidence for a CP broken deconfined phase at \$\theta =\pi\$ in 4D SU(2) Yang-Mills through simulations at imaginary \$\theta\$	HIRASAWA, Mitsuaki

Lunch (13:15 - 14:15)

Algorithms and artificial intelligence: LT2 (14:15 - 16:15)

-Conveners: Antonio Rago

time	title	presenter
14:15	Kernels and integration cycles in complex Langevin simulations	MANDL, Michael
14:35	Designing weight regularizations based on Lefschetz thimbles to stabilize complex Langevin	HOTZY, Paul
14:55	Diffusion models and stochastic quantisation in lattice field theory	AARTS, Gert
15:15	Diffusion models learn distributions generated by complex Langevin dynamics	HABIBI, Diaa Eddin
15:35	Sparse modeling study to extract spectral functions from lattice QCD data	TAKAHASHI, Junichi

Hadronic and nuclear spectrum and interactions: LT1 (14:15 - 16:15)

-Conveners: Gunnar Bali

time title	presenter
14:15 Quark mass dependence of doubly heavy tetraquark binding	PARROTT, William
14:35 Strong decay of double charm tetra quark T_cc	BASAK, Subhasish
14:55 Towards quark mass dependence of Tcc	PRELOVSEK, Sasa
15:15 \$T_{cc}\$ via plane wave approach and including diquark-antidiquark operators	VUJMILOVIĆ, Ivan
15:35 Three-body analysis of the tetraquark \$T_{cc}^+(3875)\$	DAWID, Sebastian
15:55 Lattice QCD study of \$\Xi_{cc}\$-\$\Xi_{cc}\$ interactions on the physical point	DOI, Takumi

QCD at non-zero temperature: TR5 (14:15 - 16:15)

-Conveners: Johann Ostmeyer

time	title	presenter
14:15	Constraints on the Dirac spectrum from chiral symmetry restoration and the fate of \$\mathrm{U}(1)_A\$ symmetry	GIORDANO, Matteo
14:35	QCD topology, axions and electromagnetic fields	HERNÁNDEZ HERNÁNDEZ, José Javier
14:55	QCD Anderson transition with overlap valence quarks on a twisted-mass sea	KEHR, Robin
15:15	Localization of Dirac modes in the finite temperature SU(2)-Higgs model	BARANKA, György
15:35	Pseudoscalar Screening Mass at Finite Temperature and Magnetic Field	THAKKAR, Rishabh
15:55	Pseudo-scalar meson spectral properties from spatial hadron correlators	UEDING, Tristan

Quantum computing and quantum information: TR7 (14:15 - 16:15)

-Conveners: Bipasha Chakraborty

time	title	presenter
14:15	Quantum Simulation of Large N Lattice Gauge Theories	CIAVARELLA, Anthony
14:35	Duality and entanglement in lattice gauge theories	BULGARELLI, Andrea
14:55	Towards quantum simulation of lower-dimensional supersymmetric lattice models	MENDICELLI, Emanuele
15:15	Dynamics of the Sachdev-Ye-Kitaev model	ASADUZZAMAN, Muhammad
15:35	Determining entanglement measures in SU(N) lattice gauge theory for N>4: difficulties and solutions	RINDLISBACHER, Tobias
15:55	Symmetries of the Loop-string-hadron Framework: Towards Quantum Simulating Gauge Theories	RAYCHOWDHURY, Indrakshi

Quark and lepton flavour physics: LT3 (14:15 - 16:15)

-Conveners: Craig McNeile

time	title	presenter
14:15	Status report on the hadronic light-by-light contribution to the muon g-2 using twisted-mass fermions.	KALNTIS, Nikolaos
14:35	The hadronic light-by-light contribution to the muon \$g{-}2\$ using staggered fermions at the physical point	ZIMMERMANN, Christian
14:55	Lattice QCD calculation of pion pole's contribution to HLbL	LIN, Tian
15:15	Progress on the Hadronic vacuum polarization contribution to muon g-2 from lattice QCD	MONINGI, Vaishakhi
15:35	Structure-dependent electromagnetic finite-volume effects to the hadronic vacuum polarisation	HERMANSSON-TRUEDSSON, Nils
15:55	finite-volume effects on the LO-HVP contribution to the muon g-2	LUPO ON BEHALF OF THE BMW AND DMZ COLLABORATIONS, Alessandro

Structure of hadrons and nuclei: Flex2 (14:15 - 15:55)

-Conveners: Seyong Kim

time title presenter

	A proposal for removing \$\pi N\$-state contamination from the nucleon induced pseudoscalar form factor in lattice QCD	SASAKI, Shoichi
14:35	\$ \gamma^* N \rightarrow \pi N \$ on Lattice	GAO, Yusheng
14:55	Update on pion scalar radii with \$N_f=2+1\$ Clover-improved Wilson fermions	OTTNAD, Konstantin
	Calculation of meson charge radii using model-independent method in the PACS10 configuration	SATO, Kohei
	Isovector axial and pseudoscalar form factors from twisted mass lattice QCD at the physical point	KOUTSOU, Giannis

Theoretical developments: TR4 (14:15 - 15:35)

-Conveners: Srimoyee Sen

time title	presenter
14:15 Testing nucleation calculations for strong phase transitions	WEIR, David
14:35 Exact lattice chiral symmetry in 2d gauge theory	CHERMAN, Aleksey
14:55 Generalized BKT Transitions and Persistent Order on the Lattice	BERKOWITZ, Evan
15:15 Scaling results for charged sectors of near conformal QCD	D'ALISE, Alessandra

Vacuum structure and confinement: TR6 (14:15 - 15:55)

-Conveners: Orlando Oliveira

time title	presenter
14:15 Absence of CP violation in the strong interaction	SCHIERHOLZ, Gerrit
14:35 Scale setting of \$\mathrm{SU}(N)\$ YangMills theories via Twisted Flow	Gradient GIORGIERI, Andrea
14:55 The confined-deconfined surface tension in SU(N) gauge theories a	at large N SALAMI, Ahmed
15:15 Fractional instantons and Confinement: a T2XR2 roadmap	GONZALEZ-ARROYO, Antonio
15:35 Fractional instantons and Confinement: first results for T^2xR^2	SOLER, Ivan

Break and walk to Yoko Ono Lennon Centre (16:15 - 17:00)

Plenary (17:00 - 18:30)

time	title	presenter
17:00	Machine-learning approaches to accelerating lattice simulations	LAWRENCE, Scott
17:30	Approaches to the Inverse Problem	JAY, William
18:00	The International Particle Physics Outreach Group (IPPOG) - Engaging the world with science	HATZIFOTIADOU, Despina

Tuesday, 30 July 2024

<u>Plenary</u> (09:00 - 10:30)

-Conveners: Hartmut Wittig

time title	presenter
09:00 From scattering towards multi-hadron weak decays	ERBEN, Felix
09:45 Muon g-2	DAVIES, Christine

Break and walk to Guild of Students (10:30 - 11:15)

Hadronic and nuclear spectrum and interactions: LT1 (11:15 - 12:35)

-Conveners: Sara Collins

time title presenter

11:15 Predicting the spectrum and decay constants of positive-parity heavy-strange mesons using domain-wall fermions

11:35 Static-light meson spectroscopy with optimal distillation profiles

11:55 Precision charmonium spectroscopy on CLS ensembles

12:15 Flavor mixing in charmonium and light mesons with optimal distillation profiles

URREA NINO, Juan Andres

Particle physics beyond the Standard Model: TR6 (11:15 - 12:35)

-Conveners: Davide Vadacchino

time title presenter

11:15 Electroweak correction to parity violating ep scattering ZHANG, Zhaolong

11:35 Flavour singlet mixing in Sp(4) gauge theory with fermions in multiple representations

11:55 Supersymmetric QCD on the lattice: Fine-tuning and counterterms for the Yukawa and quartic couplings

12:15 Dilaton effective theory and soft theorems

ZHANG, Zhaolong

ZIERLER, Fabian

HERODOTOU, Herodotos

QCD at non-zero density: TR5 (11:15 - 12:35)

-Conveners: Jishnu Goswami

time	title	presenter
11:15	First-order phase transitions in the heavy quark region of lattice QCD at high temperatures and high densities	EJIRI, Shinji
11:35	Chiral and deconfinement properties of the QCD crossover have a different volume and baryochemical potential dependence	PIRELLI, Ludovica
11:55	The temperature of the chiral phase transition in LQCD at its tricritical point	KLINGER, Jan Philipp
12:15	Novel first-order phase transition and critical points on SU(3) Yang-Mills theory on \$T^2\times R^2\$	KITAZAWA, Masakiyo

QCD at non-zero temperature: LT2 (11:15 - 12:35)

-Conveners: Alexei Bazavov

time title presenter

	Towards a parameter-free determination of critical exponents and chiral phase transition temperature in QCD	MITRA, Sabarnya
11:35	Three-flavour QCD phase transition with Mobius domain-wall fermions	ZHANG, Yu
11:55	Charm thermodynamics near chiral crossover	SHARMA, Sipaz
12:15	QCD thermodynamics on the physical point with 2+1 flavor Möbius domain wall fermions	AOKI, Yasumichi

Quantum computing and quantum information: TR7 (11:15 - 12:35)

-Conveners: Zohreh Davoudi

time	title	presenter
11:15	Handling challenges for robust and reliable quantum simulation of gauge theories on 1+1D and 2+1D	CHAKRABORTY, Bipasha
11:35	Simulating an SO(3) Quantum Link Model with Dynamical Fermions in 2+1 Dimensions	VAN GOFFRIER, Graham
11:55	Computing theta-dependent mass spectrum of the 2-flavor Schwinger model in the Hamiltonian formalism	MATSUMOTO, Akira
12:15	Phase Diagram of the Schwinger Model by Adiabatic Preparation of States on a Quantum Simulator	KAIKOV, Oleg

Quark and lepton flavour physics: LT3 (11:15 - 12:35)

-Conveners: Patrick Fritzsch

time title	presenter
11:15 Virtual radiative Leptonic decays of charged Kaons	DI PALMA (ON BEHALF OF THE RM123 COLLABORATION), Roberto
11:35 Form factor curves consistent with unitarity for semileptonic decays	RADLEY-SCOTT, Callum
11:55 Gradient Flow Renormalisation for Meson Mixing and Lifetimes	BLACK, Matthew
12:15 \$B^{*}\pi\$ excited-state contamination in B-physics observables	GERARDIN, Antoine

Structure of hadrons and nuclei: Flex2 (11:15 - 12:35)

-Conveners: Dimitra Pefkou

time title	presenter
Phase shift in doubly Charmed H-like dibaryon \$\Lambda_c \Lambda_c\$ scattering at \$M_{\pi}\approx 303MeV\$	GENGOOO, YiqiOOOO
11:35 Three Neutrons in a Finite Volume	SCHAAF, Wilder
11:55 Investigation of \$\pi N\$ contributions to nucleon matrix elements	LI, Yan
12:15 Lattice EFT test of the finite-volume formalism for two-body matrix elements	MOSCOSO, Joseph

Theoretical developments: TR4 (11:15 - 12:35)

-Conveners: Simon Catterall

tim	e title	presenter
11:	Generalized Ginsparg-Wilson relations: Fermionic anomalies and topological phases on the lattice	SINGH, Hersh
11:	\$\eta\$ invariant of massive Wilson Dirac operator and the index	FUKAYA, Hidenori

11:55 Axion QED as a Lattice Gauge Theory and Non-Invertible Symmetry	HONDA, Yamato
12:15 Discrete symmetry and 't Hooft anomalies for 3450 model	ONOGI, Tetsuya

Lunch (12:35 - 13:45)

Algorithms and artificial intelligence: LT2 (13:45 - 15:45)

-Conveners: Akio Tomiya

time	title	presenter
13:45	Using Machine Learning based Unfolding to reduce error on lattice QCD observables	SINGH, Simran
14:05	Control variates with neural networks	OH, Hyunwoo
14:25	Parton Distribution Functions in the Schwinger Model with Tensor Networks	SCHNEIDER, Manuel
14:45	Toward tensor renormalization group study of lattice QCD	YOSPRAKOB, Atis
15:05	Initial tensor construction and dependence for tensor renormalization group	NAKAYAMA, Katsumasa
15:25	Machine Learning Enhanced Optimization of Variational Quantum Eigensolvers	NICOLI, Kim A.

Applications outside particle physics - parallel: TR6 (13:45 - 15:45)

-Conveners: Carsten Urbach

time title	presenter
13:45 Lattice field theory of organic semiconductors	BUIVIDOVICH, Pavel
14:05 Overcoming Ergodicity Problems of the HMC Method using Radial Updates	TEMMEN, Finn
14:25 Hamiltonian Lattice Formulation of Compact Maxwell-Chern-Simons Theory	FUNCKE, Lena
14:45 Low-Lying Spectrum of Two-Dimensional Adjoint QCD from the Lattice	OARE, Patrick
15:05 Real time simulations of scalar fields with kernelled complex Langevin equation	SEXTY, Denes
15:25 Exploring Group Convolutional Networks for Sign Problem Mitigation via Contour Deformation	GÄNTGEN, Christoph

Hadronic and nuclear spectrum and interactions: LT1 (13:45 - 15:45)

-Conveners: Matthew Wingate

time	title	presenter
13:45	Beautiful exotics in a non-perturbatively tuned Lattice NRQCD setup	MOHLER, Daniel
14:05	Antistatic-antistatic-light-light tetraquark potentials with \$u\$, \$d\$ and \$s\$ quarks from lattice QCD	BICUDO, Pedro
14:25	Tetraquarks $\hat S\bar{b} = 0(1^-)\$ and $\hat S\bar{c} = 0(1^-)\$ with $ (J^P) = 0(0^+)\$, $ (1^+)\$ from Lattice QCD Static Potentials	HOFFMANN, Jakob
14:45	Hybrid static potentials and gluelumps on \$N_f=3+1\$ ensembles	HÖLLWIESER, Roman
15:05	A scheme for studying the heavy pentaquark spectrum in lattice QCD	TARIQ, Abdullah Shams Bin
15:25	Exotic \$T_{bc}\$ tetraquarks from Lattice QCD	RADHAKRISHNAN, Archana

Outreach Masterclass: TR1 (13:45 - 15:45)

time title presenter

13:45 Particle Physics Masterclasses interactive demo	HATZIFOTIADOU, Despina
	SKULLERUD, Jon-Ivar

QCD at non-zero density: TR5 (13:45 - 15:45)

-Conveners: Bastian Brandt

time	title	presenter
13:45	First-order phase transition in dynamical 3-flavor QCD at imaginary isospin	ENDRODI, Gergely
14:05	Progress on the QCD chiral phase transition for various numbers of flavors and imaginary chemical potential	KAISER, Reinhold
	Dense, magnetized, and strangeness-neutral QCD from imaginary chemical potential	MARQUES VALOIS, Adeilton Dean
14:45	QCD EoS in strong magnetic fields and nonzero baryon density	KUMAR, Arpith
15:05	The Roberge-Weiss endpoint in (\$2\$+\$1\$)-flavor QCD with background magnetic fields	ZAMBELLO, Kevin
15:25	B dependence of the QED chiral condensate induced by an external magnetic field.	SINCLAIR, Donald

Quark and lepton flavour physics: LT3 (13:45 - 15:45)

-Conveners: Tetsuya Onogi

time	title	presenter
13:45	Lattice QCD calculation of the semileptonic decay \$J/\psi\rightarrow D/D_s I \nu_I\$	MENG, Yu
14:05	Form factors for semi-leptonic $B_{(s)} \to D_{(s)}^\square \in \mathbb{S}$	BOUSHMELEV, Anastasia
14:25	$B\to D^{(*)}\$ decays from $N_f=2+1+1\$ highly improved staggered quarks and clover $b\$ -quark in the Fermilab interpretation.	BUTTI, Pietro
14:45	Towards more accurate $B_{(s)} \rightarrow \pi(K)$ and $D_{(s)} \rightarrow \pi(K)$ form factors	ROBERTS, Logan
15:05	Inclusive semileptonic \$D_s\mapsto X \ell \nu\$ decay from lattice QCD	DE SANTIS, Alessandro
15:25	Semileptonic Inclusive Decay of the \$D_s\$ Meson	GROSS, Christiane

Software development and machines - parallel: TR7 (13:45 - 15:45)

-Conveners: Anthony Kennedy

time	title	presenter
13:45	Lattice QCD on the NVIDIA Grace-Hopper architecture	WAGNER, Mathias
14:05	Implementing automatic testing of Lattice QCD Software on Supercomputing Clusters	BÜRGER, Simon
14:25	O(a)-improved QCD+QED Wilson Dirac operator on GPUs	GRUBER, Roman
14:45	A Julia Code for Lattice QCD on GPUs	PÉREZ PANADERO, Fernando
15:05	Rearchitecting QUDA for Multi-RHS Computation	CLARK, Kate
15:25	openQCD on GPU	RAGO, Antonio

Structure of hadrons and nuclei: Flex2 (13:45 - 15:45)

-Conveners: Tie-Jiun Hou

time title presenter

13:45 Measurement of the TMD soft function on the lattice using the auxiliary field representation of the Wilson line	MORRIS, Wayne
14:05 Lattice Boer-Mulders TMDPDF with LaMET	MA, Lingquan
14:25 Nucleon TMDPDFs within the twisted mass fermion formulation of lattice QCD	SEN, Aniket
14:45 Forward-limit generalized parton distributions of the \$\eta_{c}\$-meson	MORGADO CHÁVEZ, Jose Manuel
15:05 Gluon Collins-Soper kernel from lattice QCD	FU, Yang
15:25 Refining Gluon Distributions in Nucleons via Lattice QCD	MAIO, Lorenzo

Theoretical developments: TR4 (13:45 - 15:25)

-Conveners: Hidenori Fukaya

time	title	presenter
13:45	The perturbative computation of the gradient flow coupling for the twisted EguchiKawai model with the numerical stochastic perturbation theory	TAKEI, Hironori
14:05	Smoothing Properties of the Wilson Flow and Topological Charge	JAEGER, Benjamin
14:25	Energy-momentum tensor in the 2D Ising CFT in full modular space	MATSUMOTO, Nobuyuki
14:45	Lattice Field Theory On Curved Manifolds The Affine Conjecture	BROWER, Richard
15:05	Lattice study of RG fixed point based on gradient flow in \$3\$D \$O(N)\$ sigma model	MORIKAWA, Okuto

Break (15:45 - 16:15)

Algorithms and artificial intelligence: LT2 (16:15 - 17:15)

-Conveners: Walter Wilcox

time	title	presenter
16:15	Effects of FTHMC with 2+1 Domain Wall Fermions on Autocorrelation Times via Master-Field Technique	YAMAMOTO, Shuhei
16:35	Minimal Autocorrelation in HMC simulations using Exact Fourier Acceleration	OSTMEYER, Johann
16:55	A new method for calculating false vacuum decay rates on the lattice	SWAIM, Joshua

Applications outside particle physics - parallel: TR6 (16:15 - 17:15)

-Conveners: Lena Funcke

_ 1	time	title	presenter
	16:15	Simulating the Hubbard Model with Normalizing Flows	SCHUH, Dominic
	16:35	The Hubbard interaction at finite temperature on a Hexagonal lattice	RAZMADZE, Lado
	16:55	Search for Stable States in Two-Body Excitations of the Hubbard Model on the Honeycomb Lattice	SINILKOV, Petar

Hadronic and nuclear spectrum and interactions: LT1 (16:15 - 17:15)

-Conveners: Christine Davies

time	title	presenter
16:15	The timelike pion form factor and other applications of \$I=1\$ \$\pi\pi\$ scattering	MILLER, Nolan
16:35	Timelike pseudoscalar form factors in a coupled channel from lattice QCD	ORTEGA GAMA, Felipe

16:55 The 3-pion K-matrix at NLC	ChPT	SJÖ, Mattias
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Quantum computing and quantum information: Flex2 (16:15 - 17:15)

-Conveners: Emanuele Mendicelli

time	title	presenter
16:1	Simulating (1+1)d Abelian Gauge Theories with Cluster Algorithms	BUDDE, Thea
16:3	Quantum computational resources for lattice QCD in the strong-coupling limit	FROMM, Michael
16:5	Scattering wave packets of hadrons in gauge theories: Preparation on a quantum computer	HSIEH, Chung-Chun

Quark and lepton flavour physics: LT3 (16:15 - 17:15)

-Conveners: Antoine Gerardin

time title presenter 16:15 Bs -> mu+mu- gamma & Bs -> phi gamma decay rates from Nf=2+1+1 twisted SANFILIPPO, Francesco mass simulations 16:35 Update of HPQCD \$B_c\to J/\psi\$ Form Factors HARRISON, Judd 16:55 Heavy-light Meson Decay Constants and Hyperfine Splittings with the MILLER, Kerr Heavy-HISQ Method

Software development and machines - parallel: TR7 (16:15 - 17:15)

-Conveners: Kate Clark

time	title	presenter
16:15	Autotuning multigrid parameters in the HMC on different architectures	KOSTRZEWA, Bartosz
16:35	Multigrid Multilevel Monte Carlo for Efficient Trace Estimation in Lattice QCD Simulations	JIMENEZ-MERCHAN, Jose
16:55	Deflation and polynomial preconditioning in the application of the overlap operator at nonzero chemical potential	RAMIREZ-HIDALGO, Gustavo

Standard Model parameters: TR5 (16:15 - 17:15)

-Conveners: Aida El-Khadra

time	title	presenter
16:15	Leptonic decays of charmed mesons with Wilson quarks on $N_{\rm rm} = 2+1$ CLS ensembles	SOELDNER, Wolfgang
16:35	Form factor in semileptonic decay of D meson	SHEN, Tinghong
16:55	The Cabibbo Angle from Inclusive \$\tau\$ Decays	GAGLIARDI (ON BEHALF OF THE ETM COLLABORATION), Giuseppe

Theoretical developments: TR4 (16:15 - 17:15)

-Conveners: Evan Berkowitz

time title		presenter	
16:15	Tensor renormalization group study of (1+1)-dimensional O(3) nonlinear sigma model w/ and w/o finite chemical potential	KURAMASHI, Yoshinobu	
16:35	Grassmann Tensor Renormalization Group for two-flavor massive Schwinger model with a theta term	KANNO, Hayato	

16:55 Phase structure analysis of 2d CP(1) model with \$\theta\$ term by tensor	AIZAWA, Hayato	
network renormalization		

Poster session and reception (17:15 - 19:15)

17:15 Taste-splittings of KW and BC fermions with gradient flow 17:15 Lambda 1405 from lattice QCD 17:15 QUDA-Accelerated Batched Solvers for LQCD Workflows 17:15 Towards direct access to the charmonium decay parameters 17:15 Towards direct access to the charmonium decay parameters 17:15 Inite-temperature critical point of heavy-quark QCD on large lattices 17:15 Finite-temperature critical point of heavy-quark QCD on large lattices 17:15 Semiconductor quantum simulator for lattice gauge theories 17:15 Semiconductor quantum simulator for lattice gauge theories 17:15 Towards determining the (2+1)-dimensional Quantum Electrodynamics running coupling with Monte Carlo and quantum computing methods 17:15 Towards determining the (2+1)-dimensional Quantum Electrodynamics running coupling with Monte Carlo and quantum computing methods 17:15 The QED contributions to the short and intermediate windows of the hadronic vacuum polarization contribution to the muon g-2 17:15 Porting Lattice QCD benchmark to upcoming STX stencil/tensor accelerator 17:15 Smeared \$RS-ratio in isoQCD with Low Mode Averaging 17:15 Smeared \$RS-ratio in isoQCD with Low Mode Averaging 17:15 Towards a discretization of supersymmetric QCD 17:15 Variational Quantum Algorithms for Non-Hermitian Systems 17:15 Status of the ETMC ensemble generation effort 17:15 Status of the ETMC ensemble generation effort 17:15 Towards and the GPU porting of HiRep 17:15 Towards of the GPU porting of HiRep 17:15 Spectrum of open confining strings in the large-\$NS limit 17:15 Towards the Analysis of Exotic Hadrons with 6-Stout Smeared Ensembles and Distillation 17:15 Spectrum of preconditioned Moeblus domain-wall operators 17:15 Towards the Analysis of Exotic Hadrons with 6-Stout Smeared Ensembles and Distillation 17:15 Spectrum of preconditioned Roeblus domain-wall operators 17:15 Equivariant Normalizing Flo	time	title	presenter
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	17:15	Portable Lattice QCD implementation based on OpenCL	KUMAR, Piyush
17:15 Higgs Portal to Dark Vector Physics MAHMOOD, Natasha	17:15	Proton decay matrix elements on PACS configurations	TSUJI, Ryutaro
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18:15	BBGKY hierarchy for quantum error mitigation	SAPORITI, Theo
18:15	Scaling of Normalizing Flows for Lattice Gauge Theories: Automated Hyperparameter Optimization and Transfer Learning	KIRWAN, Christopher
18:15	Towards the application of random matrix theory to neural networks	FAVONI, Matteo
18:15	Exploring gauge-fixing conditions with gradient-based optimization	KANWAR, Gurtej
18:15	Fourier-accelerated HMC for the 2D SU(N) X SU(N) principal chiral model	PENDLETON, Brian
18:15	Topological susceptibility of SU(3) pure-gauge theory from out-of-equilibrium simulations	VADACCHINO, Davide
18:15	Variational Autoencoders and Metropolis-Hastings	HADLEY, Joseph
18:15	Using AI for Efficient Statistical Inference of Lattice Correlators Across Mass Parameters	VEGA, Octavio
18:15	Resolving the critical bubble in SU(8) confinement transition	SEPPÄ, Riikka
18:15	Energy-momentum tensor in the 2d O(3) non-linear sigma model on the lattice	LAUK, Mika
18:15	Topology in 2D \$U(N_c)\$ lattice gauge theories	ROUENHOFF, Philip
18:15	Observing black hole features in the collapsed phase of EDT	SMIT, Jan
18:15	Matching Curved Lattices to Anisotropic Tangent Planes	FLEMING, George
18:15	Numerical study of the dimensionally reduced 3D Ising model	KIEL, Tolga
18:15	HMC and gradient flow with machine-learned classically perfect fixed point actions	WENGER, Urs
18:15	Update on the octet baryon charges with \$N_f=2+1\$ non-perturbatively improved Wilson fermions	WEISHÄUPL, Simon
18:15	High statistical computation of the Landau gauge ghost-gluon vertex	BRITO, Nuno
18:15	Online or in-person?	CHAKRABORTY, Bipasha
18:15	Partially connected contributions to baryon masses in QCD+QED	ROSSO, Sara
18:15	Update on semileptonic B-decays with HISQ light quarks and clover b-quarks in Fermilab interpretation	JEONG, Hwancheol
18:15	Support of domain decomposition-based solvers in Chroma	ROMERO ALCALDE, Eloy
18:15	Domain Decomposition of the Dirac operator in QUDA	PITTLER, Ferenc
18:15	Preliminary results for the intermediate-distance window contribution from the BMW collaboration	TOTH, Balint
18:15	Computing scattering phase shift of wavepackets in Gross-Neveu model	ASADUZZAMAN, Muhammad
18:15	Towards the gradient flow beta function of SU(2) with \$N_f=1\$ and \$2\$ adjoint Dirac fermions	BENNETT, Ed
18:15	Opening up a Coulomb Phase in Z_3 Gauge Theory	LANNERS, David
18:15	Progress in generating gauge ensembles in OpenLat	FRANCIS, Anthony
18:15	One-loop Analysis for QCD Schrodinger functional	LEUNG, ChunFei
18:15	Maximally supersymmetric YangMills in three dimensions	SCHAICH, David

Wednesday, 31 July 2024

Plenary (09:00 - 10:30)

-Conveners: Anna Hasenfratz

time	title	presenter	
09:00	Qubit Regularization: Asymptotic Freedom via New Renormalization Group flows	CHANDRASEKHARAN, Shailesh	
09:30	Lattice fermions, topological materials and Floquet insulators	SEN, Srimoyee	
10:00	Symmetric Mass Generation	TONG, David	

Break and walk to Guild of Students (10:30 - 11:15)

Algorithms and artificial intelligence: LT2 (11:15 - 12:55)

-Conveners: Gurtej Kanwar

time	title	presenter
11:15	Random Matrix Theory for Stochastic Gradient Descent	PARK, Chanju
11:35	Progress in normalizing flows for 4d gauge theories	ABBOTT, Ryan
11:55	Stochastic Normalizing Flows for Effective String Theory.	CELLINI, Elia
12:15	Sampling SU(3) pure gauge theory with Stochastic Normalizing Flows	NADA, Alessandro
12:35	Normalizing flows for SU(\$n\$) gauge theories employing singular value decomposition	JAVAD, Komijani

Hadronic and nuclear spectrum and interactions: LT1 (11:15 - 12:55)

-Conveners: Jeremy Green

time title	presenter
11:15 Quark-mass dependence of the $\Delta(1232)$ resonance parameters.	PAUL, Srijit
11:35 Studying lattice artifacts in baryon-baryon variational bounds	PERRY, Robert
11:55 Lattice QCD study on \$\Lambda_c-N\$ central and tensor potentials with physical masses	ZHANG, Liang
12:15 \$NJ/\psi\$ and \$N\eta_c\$ interactions from lattice QCD	LYU, YAN
12:35 Lattice Calculation of Proton-Proton Fusion Matrix Element	WANG, Zi-Yu

Particle physics beyond the Standard Model: TR6 (11:15 - 12:35)

-Conveners: Herodotos Herodotou

time title	presenter
11:15 On the spectrum of observable particles in BSM-like theories	DOBSON, Elizabeth
11:35 Spectroscopy of lattice gauge theories from spectral densities	FORZANO, Niccolo
11:55 Spectral densities from Euclidean-time lattice correlation functions	SACCARDI, Matteo
12:15 Updates on the density of states method in finite temperature Symplectic gauge theories	MASON, David

QCD at non-zero density: TR5 (11:15 - 12:35)

-Conveners: Etsuko Itou

time title presenter

11:15 Resummation methods for effective theories of LQCD KONRAD, Christoph

11:35 Grassmann tensor-network approach for two-dimensional QCD in the strong-coupling expansion

11:55 Complex Langevin simulations of QCD: the effects of dynamical stabilization WESTH HANSEN, Michael

12:15 The chiral critical point from the strong coupling expansion UNGER, Wolfgang

QCD at non-zero temperature: Flex2 (11:15 - 12:55)

-Conveners: Yasumichi Aoki

time	title	presenter	
11:15	NRQCD Bottomonium spectrum at non-zero temperatures using Backus-Gilbert regularisations	SMECCA, Antonio	
11:35	NRQCD Bottomonium at non-zero temperature using time-derivative moments	HOROHAN D'ARCY, Rachel	
11:55	Anisotropic excited bottomonia from a basis of smeared operators	BIGNELL, Ryan	
12:15	Nonrelativistic QCD Study of Bottomonia at Finite Temperatures on a Finer Lattice	HUANG, Wei-Ping	
12:35	Quarkonia Spectral Functions from (2+1)-flavor QCD using Non-perturbative Thermal Potential	ALI, Sajid	

Quark and lepton flavour physics: LT3 (11:15 - 12:55)

-Conveners: Jonna Koponen

time	title	presenter
11:15	Divide and conquer the sea of quarks: an application to the HVP short-distance window	SPIEGEL, Sebastian
11:35	Machine-learning techniques as noise reduction strategies in lattice calculations of the muon \$g-2\$	WITTIG, Hartmut
11:55	Preliminary results for the short-distance window contribution to the muon g-2	KOTOV, Andrey
12:15	Short- and intermediate-distance HVP contributions to muon g-2	LAHERT, Shaun
12:35	Light-quark connected HVP contributions to muon g-2	LYNCH, Michael

Theoretical developments: TR4 (11:15 - 12:55)

-Conveners: Stephan Durr

time	title	presenter	
11:15	SymEFT for local tastes of staggered lattice QCD	HUSUNG, Nikolai	
11:35	Locality and symmetry properties of staggered fermions with taste splitting mass term	CHREIM, Nuha	
11:55	Chiral Lagrangian for Karsten-Wilczek Minimally Doubled Fermion	SHUKRE, Kunal	
12:15	Eigenspectra of Minimally Doubled Fermions	KISHORE, Abhijeet	
12:35	Formulation of SU(N) Lattice Gauge Theories with Schwinger Fermions	LIU, Hanqing	

Vacuum structure and confinement: TR7 (11:15 - 12:55)

-Conveners: David Weir

time title presenter

11:15 Investigating the Flux Tube Structure within Full QCD	COSMAI, Leonardo
11:35 Towards an Effective String Theory for the flux-tube	ATHENODOROU, Andreas
11:55 Intrinsic width of the flux tube in 2+1 dimensional Yang-Mills theories	VERZICHELLI, Lorenzo
12:15 Entanglement entropy of a color flux tube in 2 + 1-D Yang-Mills theory	AMOROSSO, Rocco
12:35 Effective string description of the reconfined phase in the trace deformed SU(2) Yang-Mills theory in (2+1) dimensions.	CASELLE, Michele

Box lunch pickup (12:55 - 13:30)

Excursions (13:30 - 17:45)

Thursday, 1 August 2024

Algorithms and artificial intelligence: LT2 (09:00 - 11:00)

-Conveners: Gert Aarts

time	title	presenter
09:00	Hessian-free force-gradient integrators and their application to lattice QCD simulations	SCHÄFERS, Kevin
09:20	Parallel Tempered Metadynamics	EICHHORN, Timo
09:40	Accelerating Metadynamics to overcome action barriers in 4D-SU(3) gauge theory with an eye on full QCD	FUWA, Gianluca
10:00	Automated tuning for HMC mass ratios	OSBORN, James
10:20	Multilevel algorithm for glueball calculations	BARCA, Lorenzo
10:40	Improving HISQ quark solves using deflation	HOSTETLER, Leon

Hadronic and nuclear spectrum and interactions: LT1 (09:00 - 11:00)

-Conveners: Sinya Aoki

time	title	presenter
09:00	Scalar and tensor charmonium resonances in coupled-channel scattering	WILSON, David
09:20	Extraction of the S and P wave DD* scattering phase shifts using twisted boundary conditions	NAGATSUKA, Masato
09:40	\$DK/D\pi\$ scattering and an exotic virtual bound state at the SU(3) flavour symmetric point	YEO, Daniel
10:00	Near-threshold states in coupled \$DD^{\ast}-D^{\ast}D^{\ast}\$ scattering from lattice QCD	WHYTE, Travis
10:20	Open-charm axial-vector and tensor meson resonances from Lattice QCD	LANG, Nicolas
10:40	\$X(3872)\$ relevant \$D\bar{D}^*\$ scattering in \$N_f=2\$ lattice QCD	SHI, Chunjiang

Hadronic and nuclear spectrum and interactions: TR5 (09:00 - 11:00)

-Conveners: Felix Erben

time title	presenter
09:00 Relativistic corrections to the quark-anti-quark static potential with gradient flow	EICHBERG, Michael
09:20 \$1^{-+}\$ Light Hybrid Decay	CHEN, Siyang
09:40 Towards glueball scattering in lattice Yang-Mills theory	HANSEN, Maxwell
10:00 Scattering of Dark Pions in Sp(4) gauge theory	DENGLER, Yannick
10:20 Results on meson-meson scattering at large \$N_\mathrm{c}\$	BAEZA-BALLESTEROS, Jorge
10:40 Precise decay rate for \$\eta_b\to\gamma\gamma\ with Highly Improved Staggered Quarks	COLQUHOUN, Brian

QCD at non-zero density: TR4 (09:00 - 11:00)

-Conveners: Gergely Endrodi

time tit	le	presenter
	quation of state of isospin asymmetric QCD with small baryon chemical stentials	BRANDT, Bastian

09:20 Phase and equation of state of finite density QC\$_2\$D at lower temperature	ITOU, Etsuko
09:40 Dense QC2D: What's up with that?!?	LAWLOR, Dale
10:00 QCD constraints on isospin-dense matter and the nuclear equation of state	DETMOLD, William
10:20 Pion condensation at non-zero isospin chemical potential with Wilson fermions	BASTA, Rocco Francesco
10:40 Condensation of lighter-than-physical pions in QCD	CHELNOKOV, Volodymyr

Quark and lepton flavour physics: LT3 (09:00 - 11:00)

-Conveners: Simon Kuberski

time	title	presenter
09:00	Disconnected contribution to the muon \$g-2\$ hadronic vacuum polarization	CLARKE, David Anthony
09:20	Strong isospin breaking correction to hadronic vacuum polarization for the muon \$g-2\$	SITISON, Jake
09:40	UV-finite QED correction to the hadronic vacuum polarization contribution to \$(g-2)_\mu\$	PARRINO, Julian
10:00	The isospin-violating part of the hadronic vacuum polarisation	ERB, Dominik
10:20	Valence leading isospin breaking contributions to \$a_{\mu}^{\mathrm{HVP-LO}}\$	EVANGELISTA, Antonio
10:40	Checks on QED and strong-isospin breaking corrections to the HVP contribution in the standard model prediction of the muon g-2	RISCH, Andreas

Standard Model parameters: TR6 (09:00 - 11:00)

-Conveners: Chik Him Wong

time title	presenter
09:00 Quark mass determination using various fermio	on actions YANG, Yi-Boo
09:20 Gradient Flow for Quark Mass Determination	TAKAURA, Hiromasa
09:40 The hadronic contribution to the running of \$\al mixing angle	pha\$ and the electroweak CONIGLI, Alessandro
10:00 \$\mathrm{O}(a)\$ improvement of the flavour sin with Wilson fermions	nglet scalar density in a setup PETRAK, Pia Leonie Jones
10:20 Non-singlet axial current improvement for mass	sless and massive sea quarks KUHLMANN, Justus T.

Structure of hadrons and nuclei: Flex2 (09:00 - 10:40)

-Conveners: Xu Feng

time title	presenter
09:00 Unlocking Higher Moments of Parton Distribution Functions in Lattice QCD	ANDREA, Shindler
09:20 Higher moments of the pion parton distribution functions using gradient flow	PEFKOU, Dimitra
09:40 LCDA moments of meson	WANG, Ji-Hao
10:00 Quark and gluon momentum fractions in the pion and in the kaon	RODRIGUEZ CHACON, Luis Alberto
10:20 Transverse Force Distributions in the Proton from Lattice QCD	CRAWFORD, Joshua

Tests of fundamental symmetries: TR7 (09:00 - 11:00)

-Conveners: Thomas Blum

time	title	presenter
	Update on the lattice calculation of K->pipi decays with G-parity boundary conditions on a second lattice spacing	KELLY, Christopher
09:20	Gradient Flow of the Weinberg Operator	BHATTACHARYA, Tanmoy
09:40	Unitarity triangles and the lattice	SONI, Amarjit
	Study of symmetry of \$N_f=2\$ QCD near the critical temperature using Mobius Domain Wall Fermions	WARD, David
	Lattice techniques to investigate the strong CP problem: lessons from a toy model	ALBANDEA, David
10:40	Subtleties and systematics in obtaining a sub-percent determination of gA	WALKER-LOUD, Andre

Break (11:00 - 11:30)

Algorithms and artificial intelligence: LT2 (11:30 - 12:30)

-Conveners: Andreas Athenodorou

time title	presenter
11:30 Studies of Gauge-fixed Fourier acceleration for SU(3) gauge theory	CHRIST, Norman
11:50 Chiral rank-\$k\$ truncations for the multigrid preconditioner of Wilson fermions	WHYTE, Travis
12:10 Digitised Hamiltonian SU\$(2)\$ Gauge Theories at Weak Couplings	JAKOBS, Timo

Hadronic and nuclear spectrum and interactions: LT1 (11:30 - 12:30)

-Conveners: William Detmold

time title	presenter
11:30 Left-hand cut and the HAL QCD method	AOKI, Sinya
11:50 The Lüscher scattering formalism on the left-hand cut: an update	RAPOSO, Andre
12:10 The finite-volume spectrum in the presence of a long-range force	RUSETSKY, Akaki

Hadronic and nuclear spectrum and interactions: TR5 (11:30 - 12:30)

-Conveners: Fernando Romero-Lopez

time title	presenter	
11:30 Lattice calculaiton of hadron spectrum including isospin breaking effect	LU, Chenfei	
11:50 Error Scaling of Sea Quark Isospin-Breaking Effects	COTELLUCCI, Alessandro	
12:10 Update on the isospin breaking corrections to the HVP with C-periodic boundary conditions	PARATO, Letizia	

Quark and lepton flavour physics: LT3 (11:30 - 12:30)

-Conveners: Oliver Witzel

time	title	presenter
	Study on the P-wave form factors of the \$B_s\$ to \$D_s\$ semi-leptonic decays from inclusive lattice simulations	HU, Zhi
11:50	Spectator effects in inclusive lifetimes of heavy hadrons	LIN, Joshua
12:10	Systematic effects in the lattice calculation of inclusive semileptonic decays	KELLERMANN, Ryan

Standard Model parameters: TR6 (11:30 - 12:30)

-Conveners: Amarjit Soni

time	title	presenter
	RG running from step-scaling matrices in \Box SF schemes for $\Delta\Box$ = 2 Four-Fermion Operators	MARINELLI, Riccardo
11:50	RIMOM renormalization using domain wall and staggered fermions	CAI, Mengchu
12:10	Strong coupling constant in (2+1+1)-flavor QCD	LEINO, Viljami

Structure of hadrons and nuclei: Flex2 (11:30 - 12:30)

-Conveners: Giannis Koutsou

time title	presenter
11:30 Neutral pion polarizabilities from four-point functions	LEE, Frank
11:50 Charged kaon electric polarizability from lattice four-point functions	NADEEM, Shayan
12:10 Applications of nucleon four-point correlation functions	FENG, Xu

Theoretical developments: TR4 (11:30 - 12:30)

-Conveners: Aleksey Cherman

time title	presenter
11:30 Scattering Amplitudes from Euclidean Correlators	PATELLA, Agostino
11:50 Numerical simulation of fractional topological charge in SU(N) gauge theory coupled with \$\mathbb{Z}_N\$ \$2\$-form gauge fields	ABE, Motokazu
12:10 U(1)-gauged 2-flavor spin system in 3-D	GATTRINGER, Christof

Lunch and walk to Yoko Ono Lennon Centre (12:30 - 14:00)

<u>Plenary</u> (14:00 - 15:05)

-Conveners: Swagato Mukherjee

time title	presenter
14:00 Ken Wilson Award	
14:35 Real time simulations on the lattice: quantum, classical, and in between	TRANBERG, Anders

Conference photo and break (15:05 - 15:45)

<u>Plenary</u> (15:45 - 16:30)

-Conveners: Chris Michael

time title	presenter
15:45 50 years of lattice QCD	SMIT, Jan KOGUT, John
- Lattice Gauge Theory before Lattice Gauge Theory	KOGUT, John
- A confederacy of anomalies	SMIT, Jan

Banquet (16:30 - 19:30)

Friday, 2 August 2024

Plenary (09:00 - 10:30)

-Conveners: Jana N. Guenther

time title	presenter
09:00 Selected topics on the QCD phase diagram at finite temperature and density	SCHMIDT, Christian
09:45 Panel discussion on open data and reproducibility	ATHENODOROU, Andreas HASENFRATZ, Anna URBACH, Carsten BENNETT, Ed CHISHOLM, Louise

Break and walk to Guild of Students (10:30 - 11:15)

Algorithms and artificial intelligence: LT2 (11:15 - 12:55)

-Conveners: Lorenz von Smekal

time title	presenter
11:15 Nested Sampling for U(1) in 2+1 dimensions	ROMITI, Simone
11:35 Unfreezing topology with nested sampling	WENGER, Urs
11:55 Studying the SU(3) confinement transition with nested sampling	KANWAR, Gurtej
12:15 Density of observables from local derivatives	LARSEN, Rasmus
12:35 Real-time dynamics from convex geometry	LAWRENCE, Scott

Hadronic and nuclear spectrum and interactions: LT1 (11:15 - 13:15)

-Conveners: Colin Morningstar

time	title	presenter
11:15	Exploring Single-Flavor Dibaryons: A lattice perspective	DHINDSA, Navdeep Singh
11:35	Universality of the continuum limit for the H dibaryon	GREEN, Jeremy
	Connecting Lattice QCD Nucleon-Pion Scattering to Nuclear Ab Initio Calculations	MEYER, Aaron
	Spectral analysis for nucleon-pion and nucleon-pion-pion states in both parity sectors using distillation with domain wall fermions	HACKL, Andreas
	Pole trajectories of the \$\Lambda\$(1380) and \$\Lambda\$(1405) resonances from the combination of lattice and experimental data	PITTLER, Ferenc
	Lambda(1405) in the flavor SU(3) limit using a separable potential in the HAL QCD method	MURAKAMI, Kotaro

Lattice Data session: TR3 (11:15 - 13:15)

Particle physics beyond the Standard Model: TR6 (11:15 - 13:15)

-Conveners: Georg Bergner

time	title	presenter
11:15	Progress on the spectroscopy study of the composite Higgs model with Sp(4) gauge theory and multiple fermion representations	HSIAO, Ho

11:35 Progress in lattice simulations for two Higgs doublet models	CATUMBA, Guilherme
11:55 Lattice vs perturbation theory : Testing the Abelian-Higgs model at three loop	S EKSTEDT, Andreas
12:15 Progress on holographic vacuum misalignment	FATEMIABHARI, Ali
12:35 Dilaton Forbidden Dark Matter	INGOLDBY, James
12:55 Finite temperature transition in Hyper Stealth Dark Matter using Mobius Domain Wall fermions	PARK, Sungwoo

QCD at non-zero density: TR5 (11:15 - 13:15)

-Conveners: Shinji Ejiri

time	title	presenter
11:15	Quark number susceptibility and conserved charge fluctuation for (2+1)-flavor QCD with Möbius domain wall fermions	GOSWAMI, Jishnu
11:35	Continuum extrapolated high order baryon fluctuations	GUENTHER, Jana N.
11:55	Taylor series coefficients at \$\mu=0\$ from imaginary \$\mu\$ computations	ALIBERTI, Marco
12:15	Finite-size scaling of Lee-Yang zeros and its application to 3-state Potts model and heavy-quark QCD	WADA, Tatsuya
12:35	Search for a Lee-Yang edge singularity in high-statistics Wuppertal-Budapest data	ADAM, Alexander
12:55	On analytic continuation from imaginary to real chemical potential in Lattice QCD	DI RENZO, Francesco

Quark and lepton flavour physics: LT3 (11:15 - 13:15)

-Conveners: Tanmoy Bhattacharya

time	title	presenter
11:15	Update of kaon semileptonic form factor using \$N_f=2+1\$ PACS10 configurations	YAMAZAKI, Takeshi
11:35	Split-even approach to the rare kaon decay \$K \to \pi \ell^+ \ell^-\$	HODGSON, Raoul
11:55	Two photon contribution to the K->mumu decay amplitude on a \$1/a\approx\$ 1 GeV lattice	CHAO, En-Hung
12:15	Contribution of the eta to a lattice calculation of K->mumu decay	HU, Ceran
12:35	\$\Delta I = 1/2\$ process of \$K\to\pi\pi\$ decay on multiple ensembles with periodic boundary conditions	TOMII, Masaaki
12:55	Enhanced Lattice QCD Studies on \$\epsilon_{K}\$ and \$\Delta M_{K}\$	HUO, Yikai

Structure of hadrons and nuclei: Flex2 (11:15 - 13:15)

-Conveners: Roger Horsley

time title	presenter
11:15 Axialvector diquark Mass and quark-diquark potential in Sigma_c	NISHIOKA, Soya
11:35 Gauge dependence of ccbar potential from Nambu-Bethe-Salpeter wave function in Lattice QCD	ZHANG, Tianchen
11:55 Long-range interactions in double heavy tetraquarks \$\bar Q \bar Q q\$	ANWAR, Muhammad Naeem
12:15 Gluon nonlocal operator mixing in lattice QCD	GAVRIEL, Demetrianos
12:35 Lanczos for matrix elements	HACKETT, Daniel

Theoretical developments: TR4 (11:15 - 13:15)

-Conveners: David Tong

time title	presenter
11:15 Novel Lattice Formulation of 2D Chiral Gauge Theory via Bosonization	ONODA, Soma
11:35 Lattice Weyl Fermion on a single spherical domain-wall 1	AOKI, Shoto
11:55 Lattice Weyl Fermion on a single spherical domain-wall 2	KAN, Naoto
12:15 Loop-string-hadron approach to the SU(3) gauge invariant Hilbert space	STRYKER, Jesse
12:35 Quantum thermodynamics, lattice gauge theories, and quantum simulation	DAVOUDI, Zohreh

Vacuum structure and confinement: TR7 (11:15 - 12:55)

-Conveners: Tamas G. Kovacs

time	title	presenter
	Observations on spontaneous chiral symmetry breaking and mass gap of QCD in finite volume	MENG, Xiaolan
11:35	The four gluon vertex from lattice QCD	OLIVEIRA, Orlando
11:55	An introduction to topological data analysis for lattice field theory	GIANSIRACUSA, Jeffrey
12:15	Topological Data Analysis of Monopole Currents in U(1) Lattice Gauge Theory	CREAN, Xavier
12:35	Topological Data Analysis, Monopoles and Colour Confinement in SU(3) Yang-Mills	LUCINI, Biagio

Lunch (13:15 - 14:15)

Algorithms and artificial intelligence: LT2 (14:15 - 15:55)

-Conveners: James Osborn

time	title	presenter
14:15	Generalized HMC using Nambu mechanics	LUNDSTRUM, Erik
14:35	Tuning the Riemannian Manifold Hybrid Monte Carlo with Fermions	FIELDS, Sarah
14:55	On the geometric convergence of HMC on Riemannian manifolds	YU, Xinhao
15:15	Worldvolume Hybrid Monte Carlo algorithm for group manifolds	FUKUMA, Masafumi
_	Applying the Worldvolume Hybrid Monte Carlo method to the (1+2)-dim Hubbard model	NAMEKAWA, Yusuke

Hadronic and nuclear spectrum and interactions: LT1 (14:15 - 16:15)

-Conveners: David Wilson

time title	presenter
14:15 Learning Hadron Interactions from Lattice QCD	WANG, Lingxiao
14:35 Generalized boost transformations in finite volumes and application to Hamiltonian methods	WU, Jia-jun
14:55 Distillation and position-space sampling for local multiquark interpolators	STUMP, Andres
15:15 Progress in Reconstructing the Hadronic Tensor from Euclidean Correlators	STEWART, Douglas

15:35 Reconstruction of the vector meson propagator using a generalized eigenvalue problem	FRECH, Fabian Justus
15:55 Updates on anisotropic pure gauge ensembles with HISQ	TRIMIS, Ioannis

Particle physics beyond the Standard Model: TR6 (14:15 - 15:55)

-Conveners: Roman Zwicky

time	title	presenter
14:15	The mass of the \$\sigma\$ in a chiral ensemble in \$SU(2)\$ with two fundamental flavours	BOWES, Laurence Sebastian
14:35	Determination of the pseudoscalar decay constant from SU(2) with two fundamental flavors	MARTINS, Sofie
14:55	Symmetric mass generation for staggered fermions	CATTERALL, Simon
15:15	Renormalization group studies of the 8-flavor SU(3) system	HASENFRATZ, Anna
15:35	Investigating SU(3) with Nf=8 fundamental fermions at strong renormalized coupling	WITZEL, Oliver

QCD at non-zero temperature: TR5 (14:15 - 15:55)

-Conveners: Masakiyo Kitazawa

time	title	presenter
14:15	Computation of the latent heat of the deconfinement phase transition of SU(3) Yang-Mills theory	VIRZÌ, Luca
14:35	Non-perturbative thermal QCD at very high temperatures	GIUSTI, Leonardo
14:55	The Equation of State of QCD up to the Electro-Weak scale - part 1	PEPE, Michele
15:15	The Equation of State of QCD up to the Electro-Weak scale - part 2	BRESCIANI, Matteo
15:35	Baryonic screening masses at very high temperatures	LAUDICINA, Davide

Quark and lepton flavour physics: LT3 (14:15 - 16:15)

-Conveners: Elvira Gamiz

time	title	presenter
14:15	Lattice QCD Calculation of Electroweak Box Contributions to Superallowed Nuclear and Neutron Beta Decays	MA, Peng-Xiang
14:35	Four-quark operators with $\Delta F = 2$ in the GIRS scheme	KOSTA, Marios
14:55	Bringing near-physical QCD+QED calculations beyond the electro-quenched approximation	HILL, Ryan
15:15	Finite-volume formalism for physical processes with an electroweak loop integral	TUO, Xinyu
15:35	On-shell derivation of QED finite-volume effects	DI CARLO, Matteo
15:55	A massive nonperturbative renormalisation scheme for heavy quark observables	MUKHERJEE, Rajnandini

Standard Model parameters: TR7 (14:15 - 16:15)

-Conveners: Stefan Sint

time title	presenter
14:15 Cutoff effects and scale determinations in pure gauge theory	RAMOS, Alberto

14:35	The scales \$r_0\$ & \$r_1\$ in \$N_f=2+1\$ QCD.	ASMUSSEN, Tom
14:55	Scale setting from a combination of lattice QCD formulations with Wilson and Wilson twisted mass valence quarks	SAEZ-GONZALVO, Alejandro
15:15	Scale setting on the 2+1+1 HISQ ensembles: progress report	BAZAVOV, Alexei
	Progress on the infinite volume based gradient flow for high precision determination of the \$\Lambda_{\bar{MS}}\$ scale of QCD.	WONG, Chik Him
15:55	Precision determination of the Wilson-flow scale \$w_0\$	WANG FOR THE BMW COLLABORATION, Gen

Structure of hadrons and nuclei: Flex2 (14:15 - 15:55)

-Conveners: Andrea Shindler

time title	presenter
14:15 The leading-twist distribution amplitude of the \$\eta_c\$ meson	SAN JOSÉ PÉREZ, Miguel Teseo
14:35 Proton radii for muonic hydrogen spectroscopy from lattice QCD	SALG, Miguel
14:55 Studies of nucleon isovector structures with the PACS10 superfine lattice	TSUJI, Ryutaro
15:15 Renormalisation Group Equations for 2+1 clover Fermions	HORSLEY, Roger
15:35 Updates on the parity-odd structure function of the nucleon from the Compton amplitude	CAN, K. Utku

Theoretical developments: TR4 (14:15 - 16:15)

-Conveners: George Fleming

time	title	presenter
14:15	Grassmann bond-weighted tensor renormalization group approach to 1+1D two-color QCD with staggered fermions at finite density	KWOK, Ho Pai
14:35	Entanglement entropy by tensor renormalization group approach	TANAKA, Gota
14:55	Tensor renormalization group study of (1+1)-dimensional U(1) gauge-Higgs model at θ = π with Lüscher's admissibility condition	AKIYAMA, Shinichiro
15:15	Spectroscopy by Tensor Renormalization Group Method	ZAHRA, Fathiyya Izzatun Az
15:35	Tensor-network Toolbox for probing dynamics of non-Abelian Gauge Theories	MATHEW, Emil
15:55	Entropy in the gravitational collapse or a scalar field	VARNHORST, Lukas

Break and walk to Yoko Ono Lennon Centre (16:15 - 17:00)

<u>Plenary</u> (17:00 - 18:30)

-Conveners: Rajan Gupta

time title	presenter
17:00 Hadron Structure via PDFs	HOU, Tie-Jiun
17:30 Hadron structure via GPDs	BHATTACHARYA, Shohini
18:00 Lattice QCD in the Frontier of Electron Ion Colliders	MUKHERJEE, Swagato

Saturday, 3 August 2024

<u>Plenary</u> (09:00 - 10:30)

-Conveners: Sasa Prelovsek

time title presenter

09:00 Hadron Spectroscopy from lattice QCD: current status and future MATHUR, Nilmani

09:45 Prospects for lattice field theory beyond the Standard Model BERGNER, Georg

Break (10:30 - 11:00)

<u>Plenary</u> (11:00 - 12:30)

-Conveners: Nilmani Mathur

time title presenter

11:00 Update on Glueballs MORNINGSTAR, Colin

11:30 Nuclear Matrix Elements for Neutrinoless Double-Beta Decay GREBE, Anthony

KOVACS, Tamas G.

Box lunch pickup (12:30 - 13:15)

12:00 \$U(1)_A\$ breaking in hot QCD in the chiral limit