

Lattice2010 - Parallel Program

Monday 14 June 2010

Parallel 01: Hadronic structure and interactions - Room1 (14:30-16:10)

- Conveners: Chair Shigemi Ohta [Cecilia Tarantino] ()

time	title	presenter
14:30	Nucleon form factors and structure functions from $N_f=2$ clover fermions (00h20')	PLEITER, Dirk
14:50	Systematic errors in extracting nucleon properties from lattice QCD (00h20')	KNIPPSCHILD, Bastian
15:10	Hadron Form Factors at Large Transfer Momentum (I) (00h20')	COHEN, Saul
15:30	Axial and pseudoscalar form-factors of the Delta baryon (00h20')	GREGORY, Eric
15:50	Hyperon Form Factors from $N_f=2+1$ QCD (00h20')	ZANOTTI, James

Parallel 03: Nonzero temperature and density - Room2 (14:30-16:10)

- Conveners: Chair Rajiv V. Gavai [Stefano Di Vita] ()

time	title	presenter
14:30	The finite temperature QCD transition (00h20')	FODOR, Zoltan
14:50	The QCD equation of state with dynamical quarks (00h20')	BORSANYI, Szabolcs
15:10	On the universal $O(N)$ scaling behavior of (2+1)-flavor QCD (00h20')	SCHMIDT, Christian
15:30	Chiral Aspects of Improved Staggered Fermions with 2+1-Flavors from the hotQCD Collaboration (00h20')	SOELDNER, Wolfgang
15:50	Taste symmetry and QCD thermodynamics with improved staggered fermions (00h20')	BAZAVOV, Alexei

Parallel 05: Vacuum structure and confinement - Room3 (14:30-16:10)

- Conveners: Chair Tereza Mendes [Francesco Sanfilippo] ()

time	title	presenter
14:30	Lattice QCD Study for Gluon Propagator and Gluon Spectral Function (00h20')	SUGANUMA, Hideo
14:50	Lattice QCD analysis for the instantaneous interquark potential in the generalized Landau gauge (00h20')	IRITANI, Takumi
15:10	Relevant momentum components of gluons for confinement and chiral symmetry breaking (00h20')	YAMAMOTO, Arata
15:30	The glueball spectrum at large N (00h20')	RINALDI, Enrico
15:50	Can Lorentz-breaking fermionic condensates form in large N strongly-coupled LGT? (00h20')	TOMBOULIS, Terry E

Parallel 07: Standard model parameters and renormalization - Room4 (14:30-16:10)

- Conveners: Chair Haris Panagopoulos [Petros Dimopoulos] ()

time	title	presenter
14:30	Matching the lattice coupling to the continuum for the tree level Symanzik improved gauge action (00h20')	BRAMBILLA, Michele

14:50	Perturbative vs non-perturbative renormalization: the case of the quark mass (00h20')	DI RENZO, Francesco
15:10	Non-perturbative renormalization of quark mass in $N_f=2+1$ QCD with the Schroedinger functional scheme (00h20')	TANIGUCHI, Yusuke
15:30	Renormalization constants for Wilson fermion lattice QCD with four dynamical flavours (00h20')	PALAO, David
15:50	Egalitarian Improvement to Democracy in Non-Perturbative Renormalization of Quark Operators (00h20')	PETROV, Konstantin

Parallel 09: Hadron spectroscopy - Room5 (14:30-16:10)

- Conveners: Chair Roger Horsley [Nazario Tantalo] ()

time	title	presenter
14:30	Chiral properties of light mesons in the $N_f=2+1$ overlap QCD (00h20')	NOAKI, Junichi
14:50	Meson spectra from overlap fermion on domain wall gauge configurations (00h20')	MATHUR, Nilmani
15:10	Lattice QCD with optimal domain-wall fermions: light meson spectroscopy (00h20')	CHIU, Ting-Wai
15:30	Light hadrons from $N_f=2+1+1$ dynamical twisted mass fermions (00h20')	REKER, Siebren
15:50	Pseudoscalar Decay Constants from $N_f=2+1+1$ twisted mass lattice QCD (00h20')	URBACH, Carsten

Parallel 11: Chiral symmetry - Room6 (14:30-16:10)

- Conveners: Chair Elizabeth Freeland [Lorenzo Orifici] ()

time	title	presenter
14:30	The Aoki phase revisited (00h20')	VAQUERO, Alejandro
14:50	Wilson Fermions, Random Matrix Theory and the Aoki Phase (00h20')	VERBAARSCHOT, Jacobus
15:10	Spectra of the Wilson Dirac operator for QCD with dynamical quarks (00h20')	DAMGAARD, P.H.
15:30	Mixed action computations on fine dynamical lattices (00h20')	BERNARDONI, Fabio
15:50	Overlap Valence Quarks on a Twisted Mass Sea (00h20')	CICHY, Krzysztof

Parallel 02: Hadronic structure and interactions - Room1 (16:40-18:20)

- Conveners: Chair James Zanotti [Stefano Di Vita] ()

time	title	presenter
16:40	Nucleon matrix elements with maximally twisted fermions (00h20')	DINTER, Simon
17:00	Baryon axial coupling constants and quark momentum fractions with $N_f=2+1$ dynamical fermions (00h20')	WINTER, Frank
17:20	Transverse momentum distributions inside the nucleon from lattice QCD (00h20')	MUSCH, Bernhard
17:40	Nucleon structure from RBC/UKQCD 2+1 flavor DWF dynamical ensembles at a nearly physical pion mass (00h20')	OHTA, Shigemi
18:00	Parton Distribution Amplitudes (00h20')	RAE, Thomas

Parallel 04: Nonzero temperature and density - Room2 (16:40-18:20)

- Conveners: Chair Alexei Bazavov [Francesco Sanfilippo] ()

time	title	presenter
16:40	Finite temperature phase transition with two flavors of improved Wilson fermions (00h20')	BORNIAKOV, Vitaly

17:00	EOS in 2+1 flavor QCD with improved Wilson quarks by the fixed scale approach (00h20')	UMEDA, Takashi
17:20	Thermal transition temperature from twisted mass QCD (00h20')	ZEIDLEWICZ, Lars
17:40	Towards the $N_f=2$ deconfinement transition temperature with $O(a)$ improved Wilson fermions (00h20')	BRANDT, Bastian
18:00	The Chiral Magnetic Effect and symmetry breaking in SU(3) quenched theory (00h20')	KALAYDZHYAN, Tigran

Parallel 06: Vacuum structure and confinement - Room3 (16:40-18:20)

- Conveners: Chair: Lorenz von Smekal [Cecilia Tarantino] ()

time	title	presenter
16:40	Further investigation of massive Landau-gauge propagators in the infrared limit (00h20')	MENDES, Tereza
17:00	Colour fields generated by static sources of different SU(3) representations. (00h20')	PEDRO, Bicudo
17:20	Propagators in lattice Coulomb gauge and confinement mechanisms (00h20')	BURGIO, Giuseppe
17:40	Hamiltonian Flow in Coulomb Gauge Yang-Mills theory (00h20')	REINHARDT, Hugo
18:00	New results on the effective string corrections to the interquark potential. (00h20')	CASELLE, Michele

Parallel 08: Standard model parameters and renormalization - Room4 (16:40-18:00)

- Conveners: Chair Francesco Di Renzo [Nazario Tantalo] ()

time	title	presenter
16:40	One loop matching factors for staggered four-fermion operators with improved glue (00h20')	KIM, Jongjeong
17:00	Renormalization constants for one-derivative fermion operators in twisted mass QCD (00h20')	CONSTANTINO, Martha
17:20	Renormalisation of composite operators in lattice QCD: perturbative versus nonperturbative (00h20')	GöCKELER, Meinulf
17:40	Heavy-light current-current correlators (00h20')	KOPONEN, Jonna

Parallel 10: Hadron spectroscopy - Room5 (16:40-18:00)

- Conveners: Chair Urs Heller [Lorenzo Orifici] ()

time	title	presenter
16:40	Low-energy parameters of pion and nucleon from two-flavor lattice QCD at physical quark masses (00h20')	SCHIERHOLZ, Gerrit
17:00	Mesons and baryons masses with low mode averaging (00h20')	CASTAGNINI, Luca
17:20	Highly excited and exotic meson spectroscopy from dynamical lattice QCD (00h20')	THOMAS, Christopher
17:40	Recent results on excited hadrons in 2-flavor QCD (00h20')	ENGEL, Georg Philipp

Parallel 12: Chiral symmetry - Room6 (16:40-18:00)

- Conveners: Chair Sebastien Decotes-Genon [Petros Dimopoulos] ()

time	title	presenter
16:40	Renormalization of minimally doubled fermions (00h20')	CAPITANI, Stefano
17:00	Pairs of massless quarks on the lattice from staggered fermions (00h20')	ADAMS, David

17:20	Numerical properties of overlap staggered fermions (00h20')	DE FORCRAND, Philippe
17:40	Staggered chiral perturbation theory in the two-flavor case (00h20')	DU, Xining

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Parallel 13: Applications beyond QCD - Room1 (08:30-09:50)

- **Conveners: Chair Donald Sinclair [Stefano Di Vita] ()**

time	title	presenter
08:30	Toward the Nearly Conformal Composite Higgs Mechanism (00h20')	KUTI, Julius
08:50	Running couplings in 12 flavor QCD (00h20')	HOLLAND, Kieran
09:10	Confining vs. conformal scenario for SU(2) with 2 adjoint fermions. Mesonic spectrum. (00h20')	PICA, Claudio
09:30	Confining vs. conformal scenario for SU(2) with adjoint fermions. Gluonic observables. (00h20')	PATELLA, Agostino

Parallel 15: Nonzero temperature and density - Room2 (08:30-10:10)

- **Conveners: Chair Owe Philipsen [Francesco Sanfilippo] ()**

time	title	presenter
08:30	Charmonium spectral functions in quark-gluon plasma from lattice QCD with large spatial volume (00h20')	NONAKA, Chiho
09:10	An application of the variational analysis to calculate the meson spectral functions (00h20')	OHNO, Hiroshi
09:30	Charmonium correlation and spectral functions at finite temperature (00h20')	DING, Heng-Tong
09:50	Estimating dilepton rates and electric conductivity from vector current correlation functions in quenched QCD (00h20')	KARSCH, Frithjof

Parallel 17: Weak decays and matrix elements - Room3 (08:30-10:10)

- **Conveners: Chair James Simone [Petros Dimopoulos] ()**

time	title	presenter
08:30	Computing the long-distance contribution to second order weak amplitudes (00h20')	CHRIST, Norman
08:50	Preliminary study of the non-perturbative renormalization of $K \rightarrow \pi$ operators, with $N_f=2+1$ Domain Wall fermions (00h20')	GARRON, Nicolas
09:10	$\Delta I = 3/2$, $K \rightarrow \pi \pi$ Matrix Elements with Nearly Physical Pion Masses (00h20')	LIGHTMAN, Matthew
09:30	Preliminary results of $\Delta I = 1/2$ and $3/2$, K_S to $\pi \pi$ Decay Amplitudes from Lattice QCD (00h20')	LIU, Qi
09:50	Matrix element of the electromagnetic operator between kaon and pion states (00h20')	BAUM, Itzhak

Parallel 19: Standard model parameters and renormalization - Room4 (08:30-09:50)

- **Conveners: Chair Rainer Sommer [Cecilia Tarantino] ()**

time	title	presenter
08:30	Hunting the static energy renormalon (00h20')	BAUER, Clemens
08:50	Scale r_0 and the static potential from the CLS lattices (00h20')	LEDER, Björn
09:10	Current Status of Improved Fermilab Fermions (00h20')	OKTAY, Mehmet
09:30	Computing the $B^* B \pi$ coupling with relativistic heavy quarks and domain wall fermions (00h20')	FRITZSCH, Patrick

Parallel 21: Hadron spectroscopy - Room5 (08:30-10:10)

- **Conveners: Chair Robert Mawhinney [Lorenzo Orifici] ()**

time	title	presenter
08:30	Glueballs in the radiative J/ψ decays (00h20')	CHEN, Ying
08:50	Rho decay from twisted mass fermions (00h20')	FENG, Xu
09:10	Calculatin of ρ meson decay width from the PACS-CS configurations (00h20')	ISHIZUKA, Naruhito
09:30	Extracting resonance parameters from lattice data: Part II (00h20')	MCMANUS, Darrán
09:50	Extracting resonance parameters from lattice data (Part I) (00h20')	GIUDICE, Pietro

Parallel 23: Chiral symmetry - Room6 (08:30-10:00)

- **Conveners: Chair P.H. Damgaard [Nazario Tantalo] ()**

time	title	presenter
08:30	Magnetic-Field-Induced insulator-conductor transition in quenched lattice gauge theory (00h20')	BUIVIDOVICH, Pavel
08:50	QCD Rotator with Light Quarks up to NNLO Order (00h20')	WEINGART, Manuel
09:10	Brillouin improvement for Wilson fermions (00h20')	KOUTSOU, Giannis
09:30	Low-energy constants from Dirac eigenvalue correlators at NNLO in the epsilon expansion (00h20')	LEHNER, Christoph

Parallel 14: Applications beyond QCD - Room1 (10:30-12:10)

- **Conveners: Chair Joel Giedt [Petros Dimopoulos] ()**

time	title	presenter
10:30	New results with colour-sextet quarks (00h20')	SINCLAIR, Donald
10:50	PERTURBATIVE IMPROVEMENT OF SU(2) GAUGE THEORY WITH TWO WILSON FERMIONS IN ADJOINT REPRESENTATION (00h20')	KARAVIRTA, Tuomas
11:10	Lattice QCD with 8 and 12 Degenerate Quark Flavors (00h20')	JIN, Xiao-Yong
11:30	Search for the IR fixed point in the Twisted Polyakov Loop scheme (II) (00h20')	ITOU, Etsuko
11:50	Sextet QCD: slow running and the mass anomalous dimension (00h20')	SVETITSKY, Benjamin

Parallel 16: Nonzero temperature and density - Room2 (10:30-12:30)

- **Conveners: Chair Cristian Schmidt [Lorenzo Orifici] ()**

time	title	presenter
10:30	Renormalized Polyakov loop in the Fixed Scale Approach (00h20')	GAVAI, Rajiv V.
10:50	Deconfinement transition in QCD near the heavy quark limit (00h20')	SAITO, Hana
11:10	Effective Polyakov-loop theory for pure Yang-Mills from strong coupling expansion: analytical details (00h20')	LANGELAGE, Jens
11:30	Effective Polyakov-loop theory for pure Yang-Mills from strong coupling expansion: numerical aspects and conclusions (00h20')	LOTTINI, Stefano
11:50	Finite temperature QCD at fixed Q with overlap fermions (00h20')	COSSU, Guido
12:10	$N_f = 3$ critical point from canonical ensemble (00h20')	LIU, Keh-Fei

Parallel 18: Weak decays and matrix elements - Room3 (10:30-12:30)

- Conveners: Chair Qi Liu [Nazario Tantalo] ()

time	title	presenter
10:30	The B*Bpi coupling (00h20')	DONNELLAN, Michael
10:50	Masses and Decay Constants from Relativistic Highly Improved Staggered Quarks in Full Lattice QCD (00h20')	FOLLANA, Eduardo
11:10	D and B Leptonic Decay Constants from Lattice QCD (00h20')	SIMONE, James
11:30	B meson spectrum and decay constant from Nf=2 simulations (00h20')	BLOSSIER, Benoit
11:50	HQET parameters at the 1/m order with nf=2 flavors of dynamical quarks (00h20')	GARRON, Nicolas
12:10	The continuum limit of 2+1 flavor DWF ensembles (00h20')	KELLY, Christopher

Parallel 20: Standard model parameters and renormalization - Room4 (10:30-11:50)

- Conveners: Chair Meinulf Gökeler [Francesco Sanfilippo] ()

time	title	presenter
10:30	scaling study of the non-perturbative renormalized quenched quark mass (00h20')	KURTH, Thorsten
10:50	Light, strange and charm quark masses from Lattice QCD (00h20')	SANFILIPPO, Francesco
11:10	Charm current-current correlators in Twisted Mass lattice QCD (00h20')	PETSCHLIES, Marcus
11:30	Direct lattice calculation of $m_d - m_u$ (00h20')	WALKER-LOUD, Andre'

Parallel 22: Hadron spectroscopy - Room5 (10:30-12:30)

- Conveners: Chair Sinead Ryan [Stefano Di Vita] ()

time	title	presenter
10:30	Low lying baryon spectrum with Nf=2+1+1 dynamical twisted quarks. (00h20')	DRACH, Vincent
10:50	Excited states of the nucleon in 2+1 flavour QCD (00h20')	LEINWEBER, Derek
11:10	Nucleon, Delta and Omega excited state spectra at three pion mass values (00h20')	WALLACE, Stephen
11:30	From strange to charmed baryons using Nf=2 twisted mass QCD. (00h20')	PAPINUTTO, Mauro
11:50	Construction and Analysis of Two Baryon Correlation functions (00h20')	ORGINOS, Kostas

Parallel 24: Chiral symmetry - Room6 (10:30-12:30)

- Conveners: Chair Jacobus Verbaas [Cecilia Tarantino] ()

time	title	presenter
10:30	Results for light pseudoscalar mesons (00h20')	BERNARD, Claude
10:50	Let's go dynamic -- a quick tour through 2+1 lattice simulations to understand chiral symmetry breaking (00h20')	DESCOTES-GENON, Sebastien
11:10	Analysis of the $N_f=2+1$ Lattice QCD results on the lowest-lying baryon masses using covariant ChPT (00h20')	MARTIN CAMALICH, Jorge
11:30	Axial and Electromagnetic observables of hyperons in 2-flavor chiral perturbation theory (00h20')	JIANG, Fu-Jiun
11:50	Progress in Electromagnetic Corrections to Staggered Chiral Perturbation Theory (00h20')	FREELAND, Elizabeth
12:10	Topological charge in two flavors QCD with optimal domain-wall fermion (00h20')	HSIEH, Tung-Han

Parallel 25: Hadronic structure and interactions - Room1 (14:30-16:10)

- Conveners: Chair Marc Wagner [Francesco Sanfilippo] ()

time	title	presenter
14:30	Light meson form factors in $N_f=2+1$ QCD with dynamical overlap quarks (00h20')	KANEKO, Takashi
14:50	Wilson fermions at fine lattice spacings: scale setting, pion form factors and $(g-2)$ (00h20')	WITTIG, Hartmut
15:10	Nucleon magnetic moments and electric polarizabilities (00h20')	TIBURZI, Brian
15:30	Hadron electric polarizability -- finite volume corrections (00h20')	ALEXANDRU, Andrei
15:50	Magnetic Moments of Negative-Parity Baryons from Lattice QCD (00h20')	LEE, Frank

Parallel 27: Nonzero temperature and density - Room2 (14:30-16:10)

- Conveners: Chair Kim Splittorff [Cecilia Tarantino] ()

time	title	presenter
14:30	Constraints on the QCD phase diagram at imaginary μ (00h20')	PHILIPSEN, Owe
14:50	Curvature of the QCD phase transition line in a finite volume (00h20')	KLEIN, Bertram
15:10	The critical line of QCD with four degenerate quarks (00h20')	COSMAI, Leonardo
15:30	Hadron properties at finite temperature and density with two-flavors of Wilson fermion (00h20')	IIDA, Hideaki
15:50	QCD at finite chemical potential in a small hyperspherical box (00h20')	MYERS, Joyce

Parallel 29: Weak decays and matrix elements - Room3 (14:30-16:10)

- Conveners: Chair Christofer Kelly [Stefano Di Vita] ()

time	title	presenter
14:30	$B \rightarrow D^{*1} \nu$ at zero recoil: an update (00h20')	KRONFELD, Andreas S.
14:50	D to K semi-leptonic form factors from HISQ light and charm quarks (00h20')	NA, Heechang
15:10	Form factors of the $D \rightarrow \pi$ and $D \rightarrow K$ semileptonic decays (00h20')	DI VITA, Stefano
15:30	Semileptonic decays of K and D mesons in 2+1 flavor QCD (00h20')	GAMIZ, Elvira
15:50	SU(2) ChPT analysis of the scalar and vector form factors of the kaon semileptonic decay obtained from twisted-mass fermions with $N_f = 2$ (00h20')	ORIFICI, Lorenzo

Parallel 31: Vacuum structure and confinement - Room4 (14:30-16:10)

- Conveners: Chair Hugo Reinhardt [Nazario Tantalo] ()

time	title	presenter
14:30	Lattice Index Theorem and Fractional Topological Charge (00h20')	HöLLWIESER, Roman
14:50	NSPT study of the three-loop lattice gluon propagator in Landau gauge (00h20')	TORRERO, Christian
15:10	Probing the Yang-Mills vacuum with adjoint zero-modes (00h20')	SASTRE, Alfonso
15:30	The deconfinement transition in 2+1 dimensional SU(3) from twisted boundary conditions and self-duality (00h20')	STRODTHOFF, Nils
15:50	Exploring center symmetry with electrically charged quarks (00h20')	EDWARDS, Sam R

Parallel 33: Hadron spectroscopy - Room5 (14:30-16:10)

- Conveners: Chair Derek Leinweber [Roberto Frezzotti] ()

time	title	presenter
14:30	2+1 flavor DWF QCD and almost physical pion masses (00h20')	MAWHINNEY, Robert
14:50	Strange quark content of nucleon via reweighting on (2+1)-flavor Domain Wall Fermion lattices (00h20')	JUNG, Chulwoo
15:10	Sigma term and strange content of the nucleon (00h20')	RAMOS, Alberto
15:30	Flavour Symmetry and Flavour Symmetry Breaking in 2+1 Flavour lattice simulations (00h20')	RAKOW, Paul
15:50	Tuning the strange quark mass and the hadron mass spectrum for 2+1 quark flavours (00h20')	HORSLEY, Roger

Parallel 35: Theoretical developments - Room6 (14:30-16:10)

- Conveners: Chair Maarten Golterman [Petros Dimopoulos] ()

time	title	presenter
14:30	Near-Integrability of Yang-Mills Theories (00h20')	ORLAND, Peter
14:50	Very high order lattice perturbation theory for Wilson loops (00h20')	PERLT, Holger
15:10	Glueball masses with exponentially improved statistical precision (00h20')	DELLA MORTE, Michele
15:30	5-dimensional SU(2) lattice gauge theory with Z_2 orbifolding and its phase structure (00h20')	SO, Hiroto
15:50	Second Order Phase Transition in Anisotropic Lattice Gauge Theories with Extra Dimensions (00h20')	NICOLIS, Stam

Parallel 26: Hadronic structure and interactions - Room1 (16:40-17:40)

- Conveners: Chair Brian Tiburzi [Lorenzo Orifici] ()

time	title	presenter
16:40	Nucleon strange quark content in 2+1 flavor QCD (00h20')	TAKEDA, Kohei
17:00	Strangeness in the nucleon from a mixed action calculation (00h20')	ENGELHARDT, Michael
17:20	Improved method for computing nucleon strangeness (00h20')	FREEMAN, Walter

Parallel 28: Nonzero temperature and density - Room2 (16:40-18:00)

- Conveners: Chair Shinji Ejiri [Petros Dimopoulos] ()

time	title	presenter
16:40	Study of finite temperature QCD with 2+1 flavors via Taylor expansion and imaginary chemical potential (00h20')	FALCONE, Rossella
17:00	Chiral and deconfinement transitions in strong coupling lattice QCD (00h20')	MIURA, Kohtaroh
17:20	Effective Potential and Phase Diagram in the Strong-Coupling Lattice QCD with Next-to-Next-to-Leading Order and Polyakov Loop Effects (00h20')	NAKANO, Takashi
17:40	Thermodynamic quark susceptibilities in the PNJL model (00h20')	CRISTOFRETTI, Marco

Parallel 30: Weak decays and matrix elements - Room3 (16:40-17:40)

- Conveners: Chair Elvira Gamiz [Cecilia Tarantino] ()

time	title	presenter
16:40	A Progress Report on B^0 Mixing (00h20')	BOUCHARD, Christopher

17:00	B-physics with dynamical domain-wall light quarks and relativistic b-quarks (00h20')	WITZEL, Oliver
17:20	Neutral B meson mixing with 2+1 flavor domain-wall light and static heavy quarks (00h20')	AOKI, Yasumichi

Parallel 32: Standard model parameters and renormalization - Room4 (16:40-17:40)

- Conveners: Chair Chris Allton [Stefano Di Vita] ()

time	title	presenter
16:40	Ghost-gluon coupling power corrections and $\overline{\Lambda_{\overline{MS}}}$ from twisted-mass lattice QCD at $\beta_f=2$. (00h20')	GRAVINA, Mario
17:00	Running of the Schroedinger functional coupling with four massless flavours (00h20')	SOMMER, Rainer
17:20	Non-perturbative running of the coupling from four-flavour lattice QCD with staggered quarks (00h20')	PEREZ RUBIO, Paula

Parallel 34: Hadron spectroscopy - Room5 (16:40-18:00)

- Conveners: Chair Taku Izubuchi [Francesco Sanfilippo] ()

time	title	presenter
16:40	New developments in multi-meson systems (00h20')	DETMOLD, William
17:00	A novel method for evaluating hadronic correlation functions in Lattice QCD spectroscopy. (00h20')	FOLEY, Justin
17:20	First Applications of the Stochastic LapH method in Lattice QCD Spectroscopy (00h20')	WONG, Chik Him
17:40	Phase Shift with LapH Propagators (00h20')	JUGE, Keisuke

Parallel 36: Theoretical developments - Room6 (16:40-18:00)

- Conveners: Chair Herbert Neuberger [Nazario Tantaló] ()

time	title	presenter
16:40	Hamiltonian studies of Lattice Gauge theories (00h20')	TAGLIACCOZZO, Luca
17:00	Worm algorithm for the O(N) Gross-Neveu model (00h20')	MAILLART, Vidushi
17:20	Loop gas formulation of supersymmetric quantum mechanics (00h20')	BAUMGARTNER, David
17:40	Loop gas formulation of supersymmetric models in low dimensions (00h20')	WENGER, Urs

Thursday 17 June 2010

Parallel 37: Hadronic structure and interactions - Room1 (14:30-16:10)

- Conveners: Chair Frank Lee [Petros Dimopoulos] ()

time	title	presenter
14:30	Forces between static-light mesons (00h20')	WAGNER, Marc
14:50	Static-light meson potentials (00h20')	HETZENEGGER, Martin
15:10	The $q\bar{q}$ - q potential from Bethe - Salpeter amplitudes on lattice (00h20')	IKEDA, Yoichi
15:30	Nucleon and $N^*(1535)$ Distribution Amplitudes (00h20')	SCHIEL, Rainer
15:50	Spatial diquark correlations in a hadron (00h20')	GREEN, Jeremy

Parallel 39: Nonzero temperature and density - Room2 (14:30-16:10)

- Conveners: Chair Kalman Szabo [Francesco Sanfilippo] ()

time	title	presenter
14:30	A study of the complex action problem in a simple model for dynamical compactification in superstring theory using the factorization method. (00h20')	ANAGNOSTOPOULOS, Konstantinos
14:50	How the Quark Number fluctuates in QCD at small chemical potential (00h20')	SPLITTORFF, Kim
15:10	Poisson statistics in the high temperature QCD Dirac spectrum (00h20')	KOVACS, Tamas
15:30	Exact results for two-color QCD at low and high density (00h20')	WETTIG, Tilo
15:50	QCD at finite chemical potential in the nilpotency expansion (00h20')	PALUMBO, Fabrizio

Parallel 41: Algorithms and machines - Room3 (14:30-16:10)

- Conveners: Chair Steven Gottlieb [Nazario Tantalò] ()

time	title	presenter
14:30	Multigrid solver for clover fermions (00h20')	OSBORN, James
14:50	A mass preconditioning for lattice Dirac operators (00h20')	TANTALO, Nazario
15:10	Disconnected Diagrams: Progress, Methods and Prospects (00h20')	BROWER, Richard C.
15:30	Exact Calculation of Disconnected Loops (00h20')	O'CAIS, Alan
15:50	Autocorrelations in Hybrid Monte Carlo Simulations (00h20')	VIROTTA, Francesco

Parallel 43: Applications beyond QCD - Room4 (14:30-16:10)

- Conveners: Chair Benjamin Svetitsky [Lorenzo Orifici] ()

time	title	presenter
14:30	Condensate enhancement for mass generation in SU(3) gauge theory. (00h20')	VRANAS, Pavlos
14:50	Flavor dependence of hadron spectrum in Technicolor theories (00h20')	FLEMING, George
15:10	Flavor dependence of the S parameter in SU(3) gauge theory (00h20')	SCHAICH, David
15:30	Improved Lattice Spectroscopy of Minimal Walking Technicolor (00h20')	KERRANE, Eoin
15:50	Chiral symmetry of graphene and strong coupling lattice gauge theory (00h20')	ARAKI, Yasufumi

Parallel 45: Hadron spectroscopy - Room5 (14:30-16:10)

- Conveners: Chair Stefan Sint [Cecilia Tarantino] ()

time	title	presenter
14:30	Electromagnetic splittings of charged and neutral mesons from improved staggered quarks (00h20')	TOROK, Aaron
14:50	Isopin breaking study on lattice (00h20')	IZUBUCHI, Taku
15:10	Electromagnetic corrections to light hadron masses (00h20')	PORTELLI, Antonin
15:30	D_s meson spectroscopy (00h20')	MOHLER, Daniel
15:50	Study of the newly discovered mesons in the charm region with chiral fermions. (00h20')	GONG, Ming

Parallel 47: Theoretical developments - Room6 (14:30-16:10)

- Conveners: Chair Enrico Onofri [Stefano Di Vita] ()

time	title	presenter
14:30	Species doublers as supermultiplet partners in lattice supersymmetry: ---General outlook--- (00h20')	KAWAMOTO, Noboru
14:50	Species doublers as supermultiplet partners in lattice supersymmetry. The supersymmetric quantum mechanics case. (00h20')	D'ADDA, Alessandro
15:10	Supersymmetry non-renormalization theorem from a computer and the AdS/CFT correspondence (00h20')	HONDA, Masazumi
15:30	Witten index from lattice simulation (00h20')	KANAMORI, Issaku
15:50	A study of $N=2$ Landau-Ginzburg model by lattice simulation based on a Nicolai map (00h20')	KAWAI, Hiroki

Parallel 38: Hadronic structure and interactions - Room1 (16:40-18:00)

- Conveners: Chair Noriyoshi Ishii [Stefano Di Vita] ()

time	title	presenter
16:40	Two-photon decay of π^0 from two-flavor lattice QCD (00h20')	SHINTANI, Eigo
17:00	Simulations with dynamical HISQ quarks (00h20')	TOUSSAINT, Doug
17:20	Leading order hadronic contribution to $g-2$ from twisted mass QCD (00h20')	RENNER, Dru
17:40	non-locality of the nucleon-nucleon potential from Lattice QCD (00h20')	MURANO, Keiko

Parallel 40: Nonzero temperature and density - Room2 (16:40-18:00)

- Conveners: Chair Wolfgang Soeldner [Lorenzo Orifici] ()

time	title	presenter
16:40	Thermodynamics of $SU(N)$ gauge theories in $2+1$ dimensions in the $T < T_c$ regime. (00h20')	FEO, Alessandra
17:00	SU(3) thermodynamics at high temperatures (00h20')	SZABO, Kalman
17:20	Coherent center domains in local Polyakov loops (00h20')	DANZER, Julia
17:40	Continuum Thermodynamics of the SU(N) Gauge Theory (00h20')	DATTA, Saumen

Parallel 42: Algorithms and machines - Room3 (16:40-18:00)

- Conveners: Chair Ronald Babich [Cecilia Tarantino] ()

time	title	presenter
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16:40	Rational Domain-Decomposed HMC (00h20')	NAKAMURA, Yoshifumi
17:00	A worm-inspired algorithm for the simulation of Abelian gauge theories (00h20')	KORZEC, Tomasz
17:20	The three-dimensional XY model at finite chemical potential using complex Langevin dynamics (00h20')	JAMES, Frank
17:40	Implementation and performance optimization of Lattice QCD Tool Kit on the Cell/B.E. (00h20')	MOTOKI, Shinji

Parallel 44: Applications beyond QCD - Room4 (16:40-18:00)

- Conveners: Chair George Fleming [Nazario Tantaló] ()

time	title	presenter
16:40	Exploration of the phase structure of the $SSU(N_c)$ lattice gauge theory with many Wilson fermions at strong coupling (00h20')	NAGAI, Keiichi
17:00	MCRG Minimal Walking Technicolor (00h20')	KEEGAN, Liam
17:20	Mass anomalous dimension and running of the coupling in $SU(2)$ with six fundamental fermions (00h20')	PICKUP, Thomas
17:40	Study of the scaling properties in $SU(2)$ gauge theory with eight flavors (00h20')	OHKI, Hiroshi

Parallel 46: Hadron spectroscopy - Room5 (16:40-18:00)

- Conveners: Chair Carsten Urbach [Petros Dimopoulos] ()

time	title	presenter
16:40	Charmonium spectroscopy from $N_f=2+1$ dynamical anisotropic lattices (00h20')	RYAN, Sinead
17:00	Update on charm annihilation contribution to the hyperfine splitting in charmonium (00h20')	LEVKOVA, Ludmila
17:20	Bottom meson masses from a RHQ action on a fine $2+1$ flavor DWF lattice (00h20')	HAO, Peng
17:40	The spectrum of static-light baryons in twisted mass lattice QCD (00h20')	WIESE, Christian

Parallel 48: Theoretical developments - Room6 (16:40-18:00)

- Conveners: Michele Della Morte [Francesco Sanfilippo] ()

time	title	presenter
16:40	Search for non-perturbative mechanisms to generate a W boson mass (00h20')	BERG, Bernd
17:00	Topological gravity on a lattice (00h20')	CATTERALL, simon
17:20	Large-N beta function and static inter-quark potential (00h20')	BOCHICCHIO, Marco
17:40	From loops to surfaces (00h20')	NEUBERGER, Herbert

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Parallel 49: Hadronic structure and interactions - Room1 (14:30-16:10)

- Conveners: Chair Dru Renner [Nazario Tantaló] ()

time	title	presenter
14:30	Charmonium-Nucleon potential from lattice QCD (00h20')	KAWANAI, taichi
14:50	Low energy charmonium-nucleon scattering with twisted boundary conditions (00h20')	SASAKI, Shoichi
15:10	Flavor structure of the baryon-baryon interaction from lattice QCD (00h20')	INOUE, Takashi
15:30	Lattice QCD study of baryon-baryon interactions in the $(S,I)=(-2,0)$ system using the coupled-channel formalism (00h20')	SASAKI, Kenji
15:50	The study of the Three Nucleon Force in full QCD Lattice calculations (00h20')	DOI, Takumi

Parallel 51: Nonzero temperature and density - Room2 (14:30-16:10)

- Conveners: Chair Chiho Nonaka [Lorenzo Orifici] ()

time	title	presenter
14:30	Spectral properties of quarks above T_c -- thermal mass, dispersion relation, and self-energy -- (00h20')	KITAZAWA, Masakiyo
14:50	Longitudinal and transverse meson correlators in the deconfined phase from the lattice (00h20')	ALLTON, Chris
15:10	THE SCALAR DOES NOT DECAY AT FINITE TEMPERATURES. (00h20')	BANERJEE, Debasish
15:30	Lattice study of transport coefficients in second order dissipative hydrodynamics (00h20')	KOHNO, Yasuhiro
15:50	Another mean field treatment in the strong coupling limit of lattice QCD (00h20')	OHNISHI, Akira

Parallel 53: Algorithms and machines - Room3 (14:30-16:10)

- Conveners: Chair Massimo Di Piero [Stefano Di Vita] ()

time	title	presenter
14:30	AuroraScience (00h20')	SCORZATO, Luigi
14:50	Solving the Dirac equation on QPACE (00h20')	NOBILE, Andrea
15:10	apeNET+: a 3D toroidal network enabling petaFLOPS scale Lattice QCD simulations on commodity clusters (00h20')	AMMENDOLA, Roberto
15:30	Attaining multi-teraflops performance for QCD on GPUs (00h20')	BABICH, Ronald
15:50	QUADA Programming for Staggered Quarks (00h20')	GOTTLIEB, Steven Gottlieb

Parallel 55: Applications beyond QCD - Room4 (14:30-16:10)

- Conveners: Chair Pavlos Vranas [Francesco Sanfilippo] ()

time	title	presenter
14:30	Lattice String Field Theory (00h20')	BURSA, Francis
14:50	Supersymmetry on the lattice and the status of the SYM simulations (00h20')	BERGNER, Georg
15:10	Effects of a potential fourth fermion generation on the upper and lower Higgs boson mass bounds. (00h20')	GERHOLD, Philipp

15:30	The bulk transition of many-flavour QCD and the search for an UVFP at strong coupling (00h20')	PALLANTE, Elisabetta
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Parallel 57: Vacuum structure and confinement - Room5 (14:30-16:10)

- Conveners: Chair Michele Caselle [Petros Dimopoulos] ()

time	title	presenter
14:30	Study of the QGP physics in center vortices (00h20')	SAITO, Takuya
14:50	Non abelian Bianchi identities, monopoles and gauge invariance (00h20')	BONATI, Claudio
15:10	The QCD vacuum wave functional and confinement in Coulomb gauge (00h20')	OLEJNIK, Stefan
15:30	Momentum dependence of the topological susceptibility with overlap fermions (00h20')	KOMA, Yoshiaki
15:50	Quantum entanglement in SU(3) lattice Yang-Mills theory at zero and finite temperatures (00h20')	NAKAGAWA, Yoshiyuki Nakagawa

Parallel 59: Theoretical developments - Room6 (14:30-16:10)

- Conveners: Chair Weonjong Lee [Cecilia Tarantino] ()

time	title	presenter
14:30	Towards step-scaling with off-shell renormalisation (00h20')	ARTHUR, Rudy
14:50	Testing universality and automatic O(a) improvement in massless lattice QCD with Wilson quarks (00h20')	SINT, Stefan
15:10	Transfer Matrix for Partially Quenched QCD (00h20')	GOLTERMAN, Maarten
15:30	Reflection positivity of the free overlap fermions. (00h20')	USUI, Kouta
15:50	Classification and Generalization of Minimal-doubling actions (00h20')	MISUMI, Tatsuhiro

Parallel 50: Hadronic structure and interactions - Room1 (16:40-18:00)

- Conveners: Chair Shoichi Sasaki [Lorenzo Orifici] ()

time	title	presenter
16:40	An extension to the Luescher's finite volume method above inelastic thresholds (formalism) (00h20')	ISHII, Noriyoshi
17:00	Extracting Scattering Parameters using the Isospin Chemical Potential (00h20')	BUCHOFF, Michael
17:20	The chiral and angular momentum content of the ρ -meson (00h20')	LIMMER, Markus
17:40	Rho decay widths from the lattice (00h20')	FRISON, Julien

Parallel 52: Nonzero temperature and density - Room2 (16:40-18:00)

- Conveners: Chair Fabrizio Palumbo [Nazario Tantalò] ()

time	title	presenter
16:40	The imbalanced Fermi gas at unitarity (00h20')	GOULKO, Olga
17:00	A new approach for studying large numbers of fermions in the unitary regime (00h20')	ENDRES, Michael G.
17:20	Lattice Study of Trapped Fermions at Unitarity (00h20')	NICHOLSON, Amy N.
17:40	Lattice calculation for unitary fermions in a finite box (00h20')	LEE, JONG-WAN

Parallel 54: Algorithms and machines - Room3 (16:40-18:00)

- Conveners: Chair Richard Brower [Petros Dimopoulos] ()

time	title	presenter
16:40	GPU Performance of Conjugate Gradient Solver with Staggered Fermions (00h20')	KIM, Hyung-Jin
17:00	GPU-Based Conjugate Gradient Solver for Lattice QCD with Domain-Wall Fermions (00h20')	MAO, Yao-Yuan
17:20	Implementation of the Neuberger overlap operator in GPUs (00h20')	WALK, Bjoern
17:40	Domain decomposition method on GPU cluster for Lattice (00h20')	OSAKI, Yusuke

Parallel 56: Applications beyond QCD - Room4 (16:40-18:00)

- Conveners: Chair Elisabetta Pallante [Cecilia Tarantino] ()

time	title	presenter
16:40	Dimensional reduction and confinement from five dimensions (00h20')	KNECHTLI, Francesco
17:00	Center Symmetry Restoration with 2 Flavor Large N Yang-Mills in the Adjoint Representation. (00h20')	GALVEZ, Richard
17:20	Orientifold Planar Equivalence: The Quenched Meson Spectrum (00h20')	LUCINI, Biagio
17:40	Lattice Wess-Zumino Model Simulation with GPUs (00h20')	GIEDT, Joel

Parallel 58: Vacuum structure and confinement - Room5 (16:40-18:00)

- Conveners: Chair Terry Tomboulis [Francesco Sanfilippo] ()

time	title	presenter
16:40	Properties of gauge orbits (00h20')	MAAS, Axel
17:00	Universal Aspects of Deconfinement: Interfaces, Flux Tubes and Self-Duality in 2+1 Dimensions (00h20')	VON SMEKAL, Lorenz
17:20	Gauge-independent "Abelian" dominance and magnetic monopole dominance in SU(3) Yang-Mills theory (00h20')	SHIBATA, Akihiro
17:40	Confinement in G2 gauge theories (00h20')	WELLEGEHAUSEN, Björn

Parallel 60: Theoretical developments - Room6 (16:40-18:00)

- Conveners: Chair Alessandro D'Adda [Stefano Di Vita] ()

time	title	presenter
16:40	Quantum entanglement and KPZ relations (00h20')	GLIOZZI, Ferdinando
17:00	ON sampling and parametrization of discrete frequency distributions (00h20')	ROSSI, Paolo
17:20	Fisher's zeros as boundary of RG flows in complex coupling space (00h20')	MEURICE, Yannick Meurice
17:40	A Ginsparg Wilson renormalisation group approach to lattice CP symmetry (00h20')	CUNDY, Nigel