Program for XQCD 2013

Workshop on QCD under extreme conditions

Bern, 5-7 August 2013

Monday, August 5

08:30	Registration opens	
09:30	Welcome	
09:45	Urs Wiedemann	News and theoretical challenges from recent heavy ion experiments
10.30	Coffee Break	
11:00	Guy Moore	NLO calculations at finite temperature and the lightcone
11:45	Kari Rummukainen	Qhat from EQCD
12:15	Seyong Kim	Lattice NRQCD study of bottomonium around the deconfinement temperature
12:45	Lunch	
14:00	Harvey Meyer	Non-perturbative approaches to transport properties and spectral functions in hot QCD
14:45	Bastian Brandt	QCD thermodynamics with O(a) improved Wilson fermions at Nf = 2
15:10	Heng-Tong Ding	QCD transition at finite temperature with domain wall fermions
15:35	Coffee Break	
16:10	Yu Maezawa	Meson screening masses at finite temperature with highly improved staggered quarks
16:35	Oscar Akerlund	Scale hierarchy in high-temperature QCD
	Sponsor talks	Poster session opens
17:00	Mike Clark	TBA
17:30	Edmund Preiss	Intel's HPC and Xeon Phi oriented Software development tools
18:00	Apero	Poster session continues

Tuesday, August 6

09:15	Heiri Leutwyler	The mass of the two lightest quarks
10:00	Christian Schmidt	The strange degrees of freedom in QCD at high temperature
10:30	Coffee Break	
11:00	Dean Lee	Lattice effective field theory for nuclear physics
11:45	Sourendu Gupta	The QCD critical point
12:15	Andrei Alexandru	QCD at imaginary chemical potential with Wilson fermions
12:45	Lunch	
14:00	Michael Endres	Unitary fermions
14:45	Simon Hands	A strongly-interacting Fermi surface? Voltage-biased bilayer graphene
15:10	Yuji Sakai	Analytic continuation in two color QCD with clover-improved Wilson fermion at finite density
15:35	Coffee Break	
16:10	Rajiv Gavai	Quark number susceptibility divergence can be subtracted off
16:35	Jacques Bloch	Solving the sign problem in one-dimensional QCD
17:00	Thomas Kloiber	Dual methods for lattice field theories at finite density
17:25	Kim Splittorff	The QCD sign problem as a total derivative
17:50	Group photo	
19:00	Dinner	Restaurant Rosengarten

Wednesday, August 7

09:15	William Detmold	QCD at nonzero isospin density
10:00	Leonard Fister	Gluondynamics in 2-colour matter at high density
10:30	Coffee Break	
11:00	Falk Bruckmann	Thermodynamic properties of QCD in external magnetic fields
11:45	Shailesh Chandrasekharan	Fermion bag solutions to sign problems
12:15	Denes Sexty	Simulations of full QCD using the complex Langevin equation
12:45	Lunch	
14:00	Mithat Unsal	Center symmetry, neutral bions and (a tiny little bit of) resurgence theory
14:45	Joyce Myers	Large N relationship of weakly coupled QCD on the hypersphere with strongly coupled lattice QCD
15:10	Tiago Nunes	Probing the conformal window on the lattice
15:35	Coffee Break	
16:10	Matti Jarvinen	Finite-temperature holographic QCD in the Veneziano limit
16:35	Kouji Kashiwa	Phase diagram and Hosotani mechanism in QCD-like theory with compact dimensions
17:00	Ting-Wai Chiu	Chiral symmetry and axial $\mathrm{U}(1)$ symmetry in finite temperature QCD with domain-wall fermion
17:25	Jeff Greensite	Effective Polyakov line actions and the sign problem
17:50	Adjourn	