

The 39th International Symposium on Lattice Field Theory (Lattice 2022)

Monday, August 8, 2022

Theoretical Developments: Theoretical Developments I - CP1-HSZ/1.001 (CP1-HSZ) - HS5 (2:00 PM - 4:00 PM)

-Conveners: Simon Catterall

time	[id] title	presenter
2:00 P	[M05] General kinematics three-gluon vertex in Landau-gauge from quenched-lattice QCD	PINTO GÓMEZ, Fernando
2:20 P	[M4] Extracting Non-Abelian Coulomb Potential from SU(3) N=4 Lattice SYM	TOGA, Goksu
2:40 P	[M09] Translating topological benefits in very cold master-field simulations	FRANCIS, Anthony
3:00 P	[M11] Study of SU(2) gauge theories with multiple Higgs fields in different representations	SARKAR, Mugdha
3:20 P	[M8] Probing center vortices and deconfinement in SU(2) lattice gauge theory with persistent homology	SALE, Nicholas
3:40 P	[M08] Loop-string-hadron formulation of an SU(3) gauge theory with dynamical quarks	KADAM, Saurabh Vasant

Theoretical Developments: Theoretical Developments II - CP1-HSZ/1.001 (CP1-HSZ) - HS5 (4:30 PM - 6:30 PM)

-Conveners: Alexander Rothkopf

time	[id] title	presenter
4:30 P	[M34] Lattice Non-Linear Sigma Model on the Supersphere	COSTA, Ilaria
4:50 P	[M07] A new type of lattice gauge theory through self-adjoint extensions	MARIANI, Alessandro
5:10 P	[M76] Numerical studies on the finite-temperature CP restoration in 4D SU(\$N\$) gauge theory at $\theta = \pi$	Dr MATSUMOTO, Akira
5:30 P	[M27] Computing the Central Charge of the 3D Ising CFT Using Quantum Finite Elements	GLÜCK, Anna-Maria Elisabeth
5:50 P	[M03] The critical Ising model on an affine plane	OWEN, Evan
6:10 P	[M10] Massless Schwinger model with a 4-fermi-interaction at topological angle $\theta = \pi$	HIRTLER, Dominic

Wednesday, August 10, 2022

Theoretical Developments: Theoretical Developments III - CP1-HSZ/1.001 (CP1-HSZ) - HS5 (2:00 PM - 4:00 PM)

-Conveners: **Leonardo Giusti**

time	[id] title	presenter
2:00 P	[M186] 't Hooft anomalies for staggered fermions	CATTERALL, Simon
2:20 P	[M196] Reformulation of anomaly inflow on the lattice and construction of lattice chiral gauge theories	PEDERSEN, Juan William
2:40 P	[M187] Casimir effect for fermions on the lattice	NAKAYAMA, Katsumasa
3:00 P	[M104] Adjoint fermions at large- N_c on the lattice	BUTTI, Pietro
3:20 P	[M152] Density profiles and correlations of harmonically trapped ultracold fermions	BAUER, Marc
3:40 P	[M101] Four-dimensional domain decomposition for the factorization of the fermion determinant	Mr SACCARDI, Matteo

Theoretical Developments: Theoretical Developments IV - CP1-HSZ/1.001 (CP1-HSZ) - HS5 (4:30 PM - 6:30 PM)

-Conveners: **Roberto Frezzotti**

time	[id] title	presenter
4:30 P	[M1828] Probing the singularities of the Landau gauge gluon and ghost propagators with rational approximants	LONDON, Cristiane Yumi
4:50 P	[M194] The de Sitter Instanton from Euclidean Dynamical Triangulations	SCHIFFER, Marc
5:10 P	[M18] Clifford Fourier Transforms in (2+1)D Lattice Simulations of Soliton Propagations	Dr FURUI, Sadataka
5:30 P	[M153] Testing universality of gauge theories	RAMOS, Alberto RAMOS MARTINEZ, Alberto

Thursday, August 11, 2022

Theoretical Developments: Theoretical Developments V - CP1-HSZ/1.001 (CP1-HSZ) - HS5 (9:00 AM - 11:00 AM)

-Conveners: Alberto Ramos Martinez

time	[id] title	presenter
9:00 AM	[M25] Simulation of self-dual U(1) lattice gauge theory with electric and magnetic matter	ANOSOVA, Maria
9:20 AM	[M14] Thermal QCD for non-perturbative renormalization of composite operators	BRESCIANI, Matteo
9:40 AM	[M65] Numerical Stochastic Perturbation Theory around instantons	BAGLIONI, Paolo
10:00 AM	[M] Towards symmetric discretization schemes via weak boundary conditions	ROTHKOPF, Alexander
10:20 AM	[S35] What is the best way to quantize non-linear electrodynamics?	KRSTIC MARINKOVIC, Marina
10:40 AM	[S32] The gradient flow formulation of the electroweak Hamiltonian	LANGE, Fabian

Theoretical Developments: Theoretical Developments VI - CP1-HSZ/1.001 (CP1-HSZ) - HS5 (11:30 AM - 12:50 PM)

-Conveners: Marina Krstic Marinkovic

time	[id] title	presenter
11:30 AM	[M20] The emergence of expanding space-time in a novel large- N limit of the Lorentzian type IIB matrix model	Dr HIRASAWA, Mitsuaki
11:50 AM	[M11] The influence of gauge field smearing on discretisation effects	RISCH, Andreas
12:10 PM	[S13] Real time evolution of scalar fields in semiclassical gravity	VARNHORST, Lukas