

Lattice 2023

Monday, 31 July 2023

Theoretical Developments - One West (16:00 - 17:40)

-Conveners: Evan Berkowitz

time	[id] title	presenter
16:00	[2] Hamiltonian Truncation on the Lattice	LUTY, Markus
16:20	[153] Infrared Phases of 2d QCD from Qubit Regularization	LIU, Hanqing
16:40	[356] A qubit regularization of asymptotic freedom without fine-tuning	MARINKOVIC, Marina
17:00	[42] Higher-group symmetry in lattice gauge theories with restricted topological sectors	Dr MORIKAWA, Okuto
17:20	[36] Lattice construction of mixed 't Hooft anomaly with higher form symmetry	ABE, Motokazu

Tuesday, 1 August 2023

Theoretical Developments - Theory (13:30 - 15:30)

-Conveners: Simon Catterall

time	[id] title	presenter
13:30	[13] The Critical Ising Model on a 2-Sphere	OWEN, Evan
13:50	[213] From the Affine Ising model to Quantum Geometry in curved space	BROWER, Richard C.
14:10	[304] Extracting OPE Coefficients of the 3d Ising CFT from the Four-Point Function	GLÜCK, Anna-Maria Elisabeth
14:30	[38] Recent Developments of Euclidean Dynamical Triangulations with Non-Trivial Measure Term	SCHIFFER, Marc
14:50	[346] Euclidean, Weak-Field General Relativity on the Lattice	BOUCHARD, Christopher
15:10	[325] Towards space-time symmetry preserving lattice discretisation schemes	ROTHKOPF, Alexander

Wednesday, 2 August 2023

Theoretical Developments - Theory (09:00 - 10:40)

-Conveners: Yigal Shamir

time	[id] title	presenter
09:00	[164] Curved domain-wall fermion and its anomaly inflow	AOKI, Shoto
09:20	[100] Spin-taste structure of minimally doubled fermions	WEBER, Johannes Heinrich
09:40	[274] Confining Strings as Integrable Spin Chains in Large N Lattice Yang-Mills Theory	KAWAI, Hiroki
10:00	[303] Fermi Gases in Two Dimensions	BERKOWITZ, Evan
10:20	[252] Generalized Hall current on a finite lattice	VALGUSHEV, Semeon

Thursday, 3 August 2023

Theoretical Developments - Theory (13:30 - 15:30)

-Conveners: Shinichiro Akiyama

time	[id] title	presenter
13:30	[130] Hadronic Structure, Conformal Maps, and Analytic Continuation	JAY, William
13:50	[50] More Minimal Renormalon Subtraction	KRONFELD, Andreas
14:10	[72] SymEFT predictions for local fermion bilinears	HUSUNG, Nikolai
14:30	[287] Methods for lattice QCD calculations of hadronic observables using stochastic locality	Dr CÈ, Marco
14:50	[294] The twisted gradient flow strong coupling with parallel tempering on boundary conditions	DASILVA GOLÁN, Jorge Luis
15:10	[17] Triviality and negative coupling ϕ^4 on the lattice	ROMATSCHKE, Paul

Theoretical Developments - Sunrise (16:00 - 18:00)

-Conveners: Okuto Morikawa

time	[id] title	presenter
16:00	[269] A staggered U(1) gauge theory inspired by self-adjoint extensions	KANWAR, Gurtej
16:20	[206] Tensor renormalization group study of 3D principal chiral model	UNMUTH-YOCKEY, Judah
16:40	[48] Bond-weighting method for the Grassmann tensor renormalization group	Dr AKIYAMA, Shinichiro
17:00	[120] Non-equilibrium dynamics of topological defects in the 3D O(2) model	LÓPEZ-CONTRERAS, Edgar
17:20	[10] QED in external EM fields	SINCLAIR, Donald
17:40	[41] Why magnetic monopole becomes dyon in topological insulators	KAN, Naoto

Friday, 4 August 2023

Theoretical Developments - Theory (09:00 - 10:40)

-Conveners: Xiaoyong Jin

time	[id] title	presenter
09:00	[69] Prospects for the stout smearing as an equivalent approach to the Wilson flow	NAGATSUKA, Masato
09:20	[221] Gauge field smearing and controlled continuum extrapolations	Dr RISCH, Andreas
09:40	[76] A pion decay constant in the multi-flavor Schwinger model	NIETO CASTELLANOS, Jaime Fabián
10:00	[140] NSPT for $O(N)$ non-linear sigma model: the larger N the better	BAGLIONI, Paolo
10:20	[275] Study of 3-dimensional $SU(2)$ gauge theory with adjoint Higgs as a model for cuprate superconductors	SARKAR, Mugdha