

Asia-Pacific Symposium for Lattice Field Theory (APLAT 2020)

Thursday, August 6, 2020

Theoretical Developments: Session 6-1 B (2:00 PM - 3:40 PM)

-Conveners: Akio Tomiya

time	[id] title	presenter
2:00 PM	[37] Radial Lattice Quantization of 3D ϕ^4 Field Theory	GASBARRO (*), Andrew
2:20 PM	[41] Alternatives to Kogut-Susskind formulation for quantum computation	HANADA, Masanori
2:40 PM	[48] Digital Quantum Simulation of the Schwinger Model with Theta Term via Adiabatic State Preparation	HONDA, Masazumi
3:00 PM	[67] Gluon Field Digitization for Quantum Computers	LAMM (*), Henry
3:20 PM	[82] Noise-robust Implementation of Gauss's law for quantum computers	MEURICE, Yannick

Theoretical Developments: Session 6-2 A (4:00 PM - 5:40 PM)

-Conveners: Xu Feng

time	[id] title	presenter
4:00 PM	[116] The Role of Boundary Conditions in Quantum Computations of Scattering Observables	STURZU (*), Alexandru
4:20 PM	[19] Maiani-Testa meets the inverse problem	BRUNO, Mattia
4:40 PM	[53] Connecting Matrix Elements to Multi-Hadron Form-Factors	JACKURA (*), Andrew
5:00 PM	[111] Relativistic N particle energy shifts in finite volume	SCHLAGE (*), Nikolas
5:20 PM	[119] Thermal field theory with pure states	TOMIYA (*), Akio

Friday, August 7, 2020

Theoretical Developments: Session 7-1 B (2:00 PM - 3:40 PM)

-Conveners: Etsuko Itou

time	[id] title	presenter
2:00PM	[27] Conformal magnetic effect in scalar QED	CHERNODUB, Maxim
2:20PM	[89] Casimir energy for the domain-wall fermion	NAKAYAMA (*), Katsumasa
2:40PM	[91] Target space defects and anisotropic gauge theories	NICOLIS, Stam
3:00PM	[123] On the ratio between scalar and tensor glueball masses in Yang-Mills theories	VADACCHINO (*), Davide
3:20PM	[5] Tensor renormalization group approach to four-dimensional complex ϕ^4 theory at finite density	AKIYAMA (*), Shinichiro

Theoretical Developments: Session 7-2 B (4:00 PM - 5:40 PM)

-Conveners: Hidenori Fukaya

time	[id] title	presenter
4:00PM	[18] Simplicial Lattice Field Theory on de Sitter and anti de Sitter Manifolds	BROWER, Richard
4:20PM	[78] A physicist-friendly reformulation of the mod-two Atiyah-Patodi-Singer index	MATSUKI (*), Yoshiyuki
4:40PM	[85] Resurgence structure on compactified spacetime with twisted boundary condition	MORIKAWA (*), Okuto
5:00PM	[134] Constraints of kinematic bosonization in two and higher dimensions	WOSIEK, Jacek
5:20PM	[108] Gamma model - bosonization and gauge theory interpretation	RUBA (*), Blazej