



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

## Thursday, 6 August 2020

### Theoretical Developments: Session 6-1 B (14:00 - 15:40)

-Conveners: Akio Tomiya

time	[id] title	presenter
14:00	[37] Radial Lattice Quantization of 3D $\phi^4$ Field Theory	GASBARRO (*), Andrew
14:20	[41] Alternatives to Kogut-Susskind formulation for quantum computation	HANADA, Masanori
14:40	[48] Digital Quantum Simulation of the Schwinger Model with Theta Term via Adiabatic State Preparation	HONDA, Masazumi
15:00	[67] Gluon Field Digitization for Quantum Computers	LAMM (*), Henry
15:20	[82] Noise-robust Implementation of Gauss's law for quantum computers	MEURICE, Yannick

### Theoretical Developments: Session 6-2 A (16:00 - 17:40)

-Conveners: Xu Feng

time	[id] title	presenter
16:00	[116] The Role of Boundary Conditions in Quantum Computations of Scattering Observables	STURZU (*), Alexandru
16:20	[19] Maiani-Testa meets the inverse problem	BRUNO, Mattia
16:40	[53] Connecting Matrix Elements to Multi-Hadron Form-Factors	JACKURA (*), Andrew
17:00	[111] Relativistic N particle energy shifts in finite volume	SCHLAGE (*), Nikolas
17:20	[119] Thermal field theory with pure states	TOMIYA (*), Akio

# Friday, 7 August 2020

## Theoretical Developments: Session 7-1 B (14:00 - 15:40)

-Conveners: Etsuko Itou

time	[id] title	presenter
14:00	[27] Conformal magnetic effect in scalar QED	CHERNODUB, Maxim
14:20	[89] Casimir energy for the domain-wall fermion	NAKAYAMA (*), Katsumasa
14:40	[91] Target space defects and anisotropic gauge theories	NICOLIS, Stam
15:00	[123] On the ratio between scalar and tensor glueball masses in Yang-Mills theories	VADACCHINO (*), Davide
15:20	[5] Tensor renormalization group approach to four-dimensional complex $\mathbb{Z}_2$ theory at finite density	AKIYAMA (*), Shinichiro

## Theoretical Developments: Session 7-2 B (16:00 - 17:40)

-Conveners: Hidenori Fukaya

time	[id] title	presenter
16:00	[18] Simplicial Lattice Field Theory on de Sitter and anti de Sitter Manifolds	BROWER, Richard
16:20	[78] A physicist-friendly reformulation of the mod-two Atiyah-Patodi-Singer index	MATSUKI (*), Yoshiyuki
16:40	[85] Resurgence structure on compactified spacetime with twisted boundary condition	MORIKAWA (*), Okuto
17:00	[134] Constraints of kinematic bosonization in two and higher dimensions	WOSIEK, Jacek
17:20	[108] Gamma model - bosonization and gauge theory interpretation	RUBA (*), Blazej