KEK Theory Workshop 2023

Wednesday, 29 November 2023

Parallel Session B: CHOU CHIEN-YU, Kohta Hatakeyama, Naoki Fukushima, Yui Hayashi, Hiromasa Watanabe, Akira Matsumoto (14:00 - 15:30)

  -Conveners: Kohtaroh Miura

time	[id] title	presenter
14:00	[11] Hartle-Hawking v.s. Vilenkin saddle points in quantum cosmology by the generalized Lefschetz thimble method	Mr CHIEN-YU, CHOU
14:15	[12] The effect of fermions on the emergence of (3 +1)-dimensional expanding space-time in the Lorentzian type IIB matrix model	Dr HATAKEYAMA, Kohta
14:30	[13] Color confinement due to topological defects ---restoration of residual gauge symmetries---	Mr FUKUSHIMA, Naoki
14:45	[14] Semiclassical analysis of the bifundamental QCD with anomaly-preserving T^2 compactification	Dr HAYASHI, Yui
15:00	[15] A new perspective on thermal transition in QCD	Dr WATANABE, Hiromasa
15:15	[16] Three ways of calculating comp osite-particle spectra of gauge theories in the Hamiltonian formalism	Mr MATSUMOTO, Akira

Parallel Session B: Worapat Piensuk, Naoyuki Yamamori, Ashutosh Tripathi, Yuhma Asano, Ken Kikuchi, Keisuke Konosu (16:00 - 17:30)

  -Conveners: Matsuo Sato

time	[id] title	presenter
16:00	[23] The phase diagram of the bosonic Lorentzian IKKT matrix model with the mass term	Mr PIENSUK, Worapat
16:15	[24] The analysis of the Lorentzian IKKT matrix model at large D	Mr YAMAMORI, Naoyuki
16:30	[25] Lefschetz-thimbl e analysis of the Lorentzian IKKT matrix model around saddle point configurations	Mr TRIPATHI, Ashutosh
16:45	[26] Perturbative superstring theory and the IKKT matrix model	Mr ASANO, Yuhma
17:00	[27] Ground state degeneracy and module category	Dr KIKUCHI, Ken
17:15	[28] Correlation functions from homotopy algebras and the applications	Mr KONOSU, Keisuke

Thursday, 30 November 2023

<u>Parallel Session B: Soichiro Shimamori, Hiroki Wada, Ryo Yokokura, Sinya Aoki, Matsuo Sato, Ryota Nasu</u> (14:00 - 15:30)

-Conveners: Junichi Haruna

time	[id] title	presenter
14:00	[39] Non-invertible duality defect and non-commut ative fusion algebra	Mr SHIMAMORI, Soichiro
14:15	[40] Non-invertible symmetries in Maxwell theory on non-spin manifold	Mr WADA, Hiroki
14:30	[41] Generalized chiral instabilities, linking numbers, and non-invertible symmetries	Dr YOKOKURA, Ryo
14:45	[51] A recipe for a bulk construction from a scalar CFT by a conformal flow	Prof. AOKI, Sinya
15:00	[43] The effective potential for string backgrounds from string geometry theory	Prof. SATO, Matsuo
15:15	[48] Renormalization group and quantum error correction	Mr NASU, Ryota

<u>Parallel Session B: Hidenori Fukaya, Atis Yosprakob, Gota Tanaka, Jingjing Yang, Mingshuo Zhu</u> (16:00 - 17:30)

-Conveners: Kazutoshi Ohta

time	[id] title	presenter
16:00	[53] A mathematical formulation of index theorem on a lattice	Dr FUKAYA, Hidenori
16:15	[50] Grassmann tensor network study of multi-flavor gauge theory	Mr YOSPRAKOB, Atis
16:30	[49] Analysis of entanglement entropy based on tensor renormalization group	Dr TANAKA, Gota
16:45	[7] Exact WKB Analysis and TBA Equations for the Stark Effect	Dr YANG, Jingjing
17:00	[58] TBA	Mr ZHU, Mingshuo