

KEK Theory Workshop 2022

Wednesday, 7 December 2022

Parallel session A (14:20 - 16:00)

-Conveners: Kohtaro Miura

time	[id] title	presenter
14:20	[1] Solitonic symmetry beyond homotopy: invertibility from bordism and non-invertibility from TQFT	Mr CHEN, Shi
14:40	[2] Unstable Nambu-Goldstone modes	Dr YOKOKURA, Ryo
15:00	[3] Formation of chiral soliton lattice	Dr NISHIMURA, Kentaro
15:20	[4] Boson-fermion duality with subsystem symmetry	Mr CAO, Weiguang
15:40	[5] Scalar, fermionic and supersymmetric field theories with subsystem symmetries	Mr NAKANISHI, Taiichi

Thursday, 8 December 2022

Parallel session A (14:00 - 15:20)

-Conveners: Sota Nakajima

time	[id] title	presenter
14:00	[12] The emergence of (3+1)-dimensional space-time in the type IIB matrix model	Dr HATAKEYAMA, Kohta
14:20	[13] Bond-weighting method for the Grassmann tensor renormalization group	Prof. AKIYAMA, Shinichiro
14:40	[14] Path Integral and Phase Space Dynamics of U(1) Quantum Pendulum	Prof. MATSUI, Tetsuo
15:00	[15] Bounds on expectation values in Quantum mechanics	Prof. MORITA, Takeshi

Parallel session A (15:40 - 16:40)

-Conveners: Sota Nakajima

time	[id] title	presenter
15:40	[16] Real-time evolution of quantum tunneling via the thimble approach	Dr YOSPRAKOB, Atis
16:00	[17] Exact solution of the finite Grosse-Wulkenhaar model	Mr KANOMATA, Naoyuki
16:20	[18] Nucleon D-term in holographic QCD	Dr FUJITA, Mitsutoshi

Friday, 9 December 2022

Parallel session A (14:00 - 15:40)

-Conveners: Kohta Hatakeyama

time	[id] title	presenter
14:00	[26] Entropy and its conservation in expanding Universe	Prof. AOKI, Shinya
14:20	[27] Entropy constraints on effective field theory	Dr UEDA, Daiki
14:40	[28] No Smooth Beginning for The Universe and Trans-Planckian Physics	Dr MATSUI, Hiroki
15:00	[29] Numerical study of quantum cosmology by the generalized Lefschetz thimble method	Mr CHOU, Chien Yu
15:20	[30] Path integrals of perturbative strings on all the curved backgrounds from string geometry theory and a potential energy of the backgrounds	Prof. SATO, Matsuo