

KEK Theory Workshop 2021

Tuesday, 7 December 2021

Short talk: Hikaru Uchida (Hokkaido U.) "Anomaly structure of finite discrete symmetries" (14:00 - 14:20)

-Conveners: Yutaka Sakamura

time	[id] title	presenter
14:00	[23] Anomaly structure of finite discrete symmetries	Mr UCHIDA, Hikaru

Short talk: Tetsutaro Higaki (Keio U.) "New 4D EFT from 10D non-Abelian DBI action in magnetic compactifications" (14:20 - 14:40)

-Conveners: Yutaka Sakamura

time	[id] title	presenter
14:20	[7] New 4D EFT from 10D non-Abelian DBI action in magnetic compactifications	Prof. HIGAKI, Tetsutaro

Short talk: Takuya Hirose (Osaka City U.) "Nonvanishing finite scalar mass in flux compactification" (14:40 - 15:00)

-Conveners: Yutaka Sakamura

time	[id] title	presenter
14:40	[8] Nonvanishing finite scalar mass in flux compactification	Mr HIROSE, Takuya

Short talk: Ryo Yokokura (KEK) "Topological axion electrodynamics and 4-group symmetry" (15:00 - 15:20)

-Conveners: Yutaka Sakamura

time	[id] title	presenter
15:00	[24] Topological axion electrodynamics and 4-group symmetry	Dr YOKOKURA, Ryo

Short talk: Hiroyuki Kitamoto (YITP) "Semiclassical analysis of axion-assisted and axion-driven pair production" (16:00 - 16:20)

-Conveners: Kiyoharu Kawana

time	[id] title	presenter
16:00	[12] Semiclassical analysis of axion-assisted and axion-driven pair production	Dr KITAMOTO, Hiroyuki

Short talk: Yugo Abe (Miyakonojo KOSEN) "Perturbative S-matrix unitarity ($S^\dagger S=1$) in $R^2 \{ \mu, \nu \}$ gravity" (16:20 - 16:40)

-Conveners: Kiyoharu Kawana

time	[id] title	presenter
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16:20	[1] Perturbative S-matrix unitarity ($S^\dagger S = 1$) in $R^2_{\mu\nu}$ gravity	Dr ABE, Yugo
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Short talk: Takahiro Terada (IBS) "Constrained Superfields in Dynamical Background" (16:40 - 17:00)

-Conveners: Kiyoharu Kawana

time	[id] title	presenter
16:40	[22] Constrained Superfields in Dynamical Background	Dr TERADA, Takahiro

Short talk: Osmin Lacombe (YITP) "Hybrid inflation and waterfall field in string theory from D7-branes" (17:40 - 18:00)

-Conveners: Satoshi Iso

time	[id] title	presenter
17:40	[35] Hybrid inflation and waterfall field in string theory from D7-branes	Dr LACOMBE, Osmin

Wednesday, 8 December 2021

Short talk: Hajime Otsuka (IBS) "Small flux superpotential in F-theory compactifications" (11:00 - 11:20)

-Conveners: Kazunobu Maruyoshi

time	[id] title	presenter
11:00	[16] Small flux superpotential in F-theory compactifications	Dr OTSUKA, Hajime

Short talk: Rinto Kuramochi (SOKENDAI) "Non-split singularities and conifold transitions in F-theory" (11:20 - 11:40)

-Conveners: Kazunobu Maruyoshi

time	[id] title	presenter
11:20	[13] Non-split singularities and conifold transitions in F-theory	Mr KURAMOCHI, Rinto

Short talk: Shuichi Murayama (Tokyo Inst. of Tech.) "Holographic index calculation for Argyres-Douglas and Minahan-Nemeschansky theories" (11:40 - 12:00)

-Conveners: Kazunobu Maruyoshi

time	[id] title	presenter
11:40	[15] Holographic index calculation for Argyres-Douglas and Minahan-Nemeschansky theories	Mr MURAYAMA, Shuichi

Short talk: Katsuta Sakai (KEK) "Entanglement entropy and two-point functions of operators" (14:00 - 14:20)

-Conveners: Takeshi Morita

time	[id] title	presenter
14:00	[17] Entanglement entropy and two-point functions of operators	Dr SAKAI, Katsuta

Short talk: Shoichi Kawamoto (NTHU) "Momentum-space entanglement in scalar field theory on noncommutative spaces" (14:20 - 14:40)

-Conveners: Takeshi Morita

time	[id] title	presenter
14:20	[9] Momentum-space entanglement in scalar field theory on noncommutative spaces	Dr KAWAMOTO, Shoichi

Short talk: Yasuhiro Sekino (Takushoku U.) "Rotating strings and particles in AdS: Holography at weak gauge coupling and without conformal symmetry" (14:40 - 15:00)

-Conveners: Takeshi Morita

time	[id] title	presenter
14:40	[19] Rotating strings and particles in AdS: Holography at weak gauge coupling and without conformal symmetry	Prof. SEKINO, Yasuhiro

Short talk: Ken Kikuchi (YMSC) "Symmetry enhancement in RCFT" (15:00 - 15:20)

-Conveners: Takeshi Morita

time [id] title

presenter

15:00[10] Symmetry enhancement in RCFT

Dr KIKUCHI, Ken

Short talk: Mitsuyo Suzuki (Osaka City U.) "UV divergent structure of supersymmetric gradient flow in N = 1 SQCD" (16:00 - 16:20)

-Conveners: Katsuta Sakai

time [id] title

presenter

16:00[20] UV divergent structure of supersymmetric gradient flow in N=1 SQCD

Mr SUZUKI, Mitsuyo

Short talk: Junichi Haruna (Kyoto U.) "Fixed Point Structure of Gradient Flow Exact Renormalization Group" (16:20 - 16:40)

-Conveners: Katsuta Sakai

time [id] title

presenter

16:20[5] Fixed Point Structure of Gradient Flow Exact Renormalization Group

Mr HARUNA, Junichi

Short talk: Gota Tanaka (Shizuoka U.) "Higher derivative extension of the functional renormalization group" (16:40 - 17:00)

-Conveners: Katsuta Sakai

time [id] title

presenter

16:40[21] Higher derivative extension of the functional renormalization group

Mr TANAKA, Gota

Thursday, 9 December 2021

Short talk: Hidenori Fukaya (Osaka U.) "What is chiral susceptibility probing?" (14:00 - 14:20)

-Conveners: Shinsuke Nishigaki

time	[id] title	presenter
14:00	[3] What is chiral susceptibility probing?	Prof. FUKAYA, Hidenori

Short talk: Shoto Aoki (Osaka U.) "Chiral fermion on curved domain-wall" (14:20 - 14:40)

-Conveners: Shinsuke Nishigaki

time	[id] title	presenter
14:20	[2] Chiral fermion on curved domain-wall	Mr AOKI, Shoto

Short talk: Akira Matsumoto (SOKENDAI) "Complex Langevin simulation of 4D SU(2) gauge theory with a theta term" (14:40 - 15:00)

-Conveners: Shinsuke Nishigaki

time	[id] title	presenter
14:40	[14] Complex Langevin simulation of 4D SU(2) gauge theory with a theta term	Mr MATSUMOTO, Akira

Short talk: Atis Yosprakob (SOKENDAI) "Tensor renormalization group and the volume independence in 2D U(N) and SU(N) gauge theories" (15:00 - 15:20)

-Conveners: Shinsuke Nishigaki

time	[id] title	presenter
15:00	[25] Tensor renormalization group and the volume independence in 2D U(N) and SU(N) gauge theories	Mr YOSPRAKOB, Atis

Short talk: Naoki Fukushima (Chiba U.) "Color confinement due to restoration of the residual local gauge symmetry" (16:00 - 16:20)

-Conveners: Asato Tsuchiya

time	[id] title	presenter
16:00	[4] Color confinement due to restoration of the residual local gauge symmetry	Mr FUKUSHIMA, Naoki

Short talk: Yusuke Kimura (KEK) "4D N = 1 SCFTs on S-folds with T-branes" (16:20 - 16:40)

-Conveners: Asato Tsuchiya

time	[id] title	presenter
16:20	[11] 4D N=1 SCFTs on S-folds with T-branes	Dr KIMURA, Yusuke

Short talk: Kohta Hatakeyama (KEK) "Signature change of the space-time in the type IIB matrix model" (16:40 - 17:00)

-Conveners: Asato Tsuchiya

time [id] title

presenter

16:40	[6]	Signature change of the space-time in the type IIB matrix model	Dr HATAKEYAMA, Kohta
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Short talk: Matsuo Sato (Hirosaki U.) "Perturbative Strings on Various Curved Backgrounds from String Geometry Theory" (17:00 - 17:20)

-Conveners: Asato Tsuchiya

time [id] title

presenter

17:00	[18]	Perturbative Strings on Various Curved Backgrounds from String Geometry Theory	Prof. SATO, Matsuo
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