

KEK Theory Seminar ONLINE

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Welcome to the Theory Seminar ONLINE. These seminars are open to those who are interested in. Please feel free to join. For connection information can be obtained by registering for each seminar.

Note that the seminars marked [EX] are mainly for experimentalists

Requests of speakers and subjects are welcome. Please send any feedback to seminar-th-center@ml.post.

Managers

- Hiromasa TAKAURA
- Katsuta SAKAI
- Kengo SHIMADA
- Mitsuaki HIRASAWA
- Ryo YOKOKURA
- Ryuichiro KITANO
- Takahisa IGATA

February 2022



25 Feb **Shan-ming Ruan,**
"TBA" NEW




-  22 Feb [Yasuaki Hikida, "dS_3/CFT_2 correspondence"](#)
-  04 Feb [Hiromasa Watanabe, "TBA"](#)
-  01 Feb [Kiyoharu Kawana, "TBA"](#)

December 2021


-  21 Dec [Yusuke Yamada, "Aether supersymmetry breaking"](#)
-  17 Dec [Toshifumi Noumi, "Gravitational Positivity Bounds and the Standard Model"](#)
-  14 Dec [Keisuke Harigaya, "Cosmology of Axion Rotation"](#)

October 2021



-  26 Oct [Robert Brandenberger, "Superstring Theory and Cosmology of the Very Early Universe"](#)
-  20 Oct [Sotaro Sugishita, "Target space entanglement in quantum mechanics of fermions and matrices"](#)

-  19 Oct [Andrey Shkerin ,
"Black hole induced false vacuum decay from first principles"](#)
-  12 Oct [Benjamin Grinstein, "\[EX\] The Neutron Decay Anomaly: a window to new Physics, perhaps."](#)
-  05 Oct [Shunsaku Horiuchi, "\[EX\] Predicting the Diffuse Flux of Supernova Neutrinos"](#)








September 2021




-  28 Sep [Samuel Passaglia,
"Isocurvature, Black Holes, and the Maximum Temperature of our Universe"](#)

August 2021

-  31 Aug [Neill Warrington,
"Contour Deformations for Lattice Field Theory"](#)
-  24 Aug [Gurtej Kanwar,
"Machine learning for ensemble generation in lattice field theory"](#)

July 2021

-  20 Jul [Sugumi Kanno, "Indirect detection of gravitons through quantum entanglement"](#)
-  16 Jul [Shinichiro Akiyama, "Tensor renormalization group approach to \(1+1\)-dimensional Hubbard model"](#)
-  13 Jul [Yang Bai, "Magnetic Black Holes with Electroweak-Symmetric Coronas"](#)
-  09 Jul [Ulf Danielsson, "Better than nothing - a higher dimensional view on quantum cosmology"](#)
-  06 Jul [Yuta Hamada, "Probe branes and the Swampland"](#)
-  01 Jul [Akira Ohnishi, "\[EX\] \(Part II\) Femtoscopic approach to hadron-hadron interactions"](#)
-  01 Jul [Takumi Doi, "\[EX\] \(Part I\) Hadron-hadron interactions from Lattice QCD"](#)





-  29 Jun [Milad Delfan Azari, "Physics of fast collective neutrino oscillations in core-collapse supernovae"](#)
-  22 Jun [Graham White, "Learning about cosmology using astrometry"](#)
-  15 Jun [Kazuya Yonekura, "Atiyah-Patodi-Singer index theorem from axial anomaly"](#)
-  08 Jun [Juan Carlos Vasquez, "Resurgence of the QCD Adler function"](#)
-  01 Jun [Tokiro Numasawa, "Four coupled SYK models and Nearly AdS₂ gravities: Phase Transitions in Traversable wormholes and in Bra-ket wormholes"](#)


May 2021

-  28 May [David Tong, "How to Give Chiral Fermions a Mass"](#)
-  25 May [Jun'ya Kume, "The role of chiral gravitational anomaly in cosmology"](#)

-  21 May Hiroshi Suzuki, "Gradient flow exact renormalization group"
-  18 May Kei Yamamoto, "EFT approach in U(2) and U(3) flavor symmetries"
-  11 May Kin-ya Oda, "New effect in wave-packet scatterings of quantum fields: Saddle points, Lefschetz thimbles, and Stokes phenomenon"


April 2021


-  30 Apr Ryohei Kobayashi, "Interacting fermionic topological phases with time reversal symmetry"
-  28 Apr Jan Pawłowski, "Emergent Hadrons and Diquarks"
-  27 Apr Sunao Sugiyama, "Exploring Dark Matter Candidates with Microlensing"
-  16 Apr Masanori Hanada, "Large-N limit as a second quantization"

 15 Apr [Christof Wetterich, "Pregeometry and emergent general relativity"](#)

 06 Apr [Masashi Aiko, "Exploring the near alignment region in the two-Higgs doublet model"](#)


March 2021








 18 Mar [Michio Kohno, "\[EX\] Baryon-baryon interactions in chiral effective field theory"](#)

 09 Mar [Jay Armas, "Topological hydrodynamic modes on curved surfaces"](#)

 01 Mar [Noriyuki Sogabe, "Topological color-superconductivity in QCD with one flavor"](#)



February 2021

 26 Feb [Kazuki Ikeda, "Real-time dynamics of Chern-Simons fluctuations near a critical point"](#)

-  25 Feb Anthony Ashmore, "Calabi-Yau metrics, machine learning, and the spectrum of the Laplace operator"
-  19 Feb Tadashi Takayanagi, "Path-Integral Optimization from Hartle-Hawking Wave Function"
-  17 Feb Wen Yin, "Messengers of reheating phase and their spectra"
-  16 Feb Shih-Yen Tseng, "Alternative Minimal $U(1)_{\{B-L\}}$ "
-  09 Feb Motoko Fujiwara, "A model of electroweakly interacting non-abelian vector dark matter"
-  02 Feb Masazumi Honda, "Quantum simulations of gauge/string/M-theory and via matrix quantum mechanics"
-  02 Feb Masazumi Honda, "Digital quantum simulation of the Schwinger model with topological term"




-  26 Jan [Denny Lane B. Sombillo, "Application of deep learning to the study of near-threshold resonances"](#)
-  19 Jan [Kazuki Enomoto, "Higher dimensional LNV operators and their renormalization"](#)
-  12 Jan [Yu Zhang, "Revisiting Correlated Dirac eigenvalues and axial anomaly in chiral symmetric QCD"](#)
-  05 Jan [Csaba Csaki, "Magnetic scattering: pairwise little group and pairwise helicity"](#)

December 2020

-  23 Dec [Shoji Hashimoto, "\[EX\] What is quark-hadron duality and how to overcome?"](#)
-  22 Dec [Yutaka Matsuo, "Dimensional oxidization on coset space"](#)

-  10 Dec Yuto Minami, "Search for parity-violating physics in the polarisation of the cosmic microwave background, so called "Cosmic Birefringence""
-  09 Dec Makiko Nio, "[EX] On determination of the fine-structure constant: Electron g-2 and Atomic interferometers"
-  09 Dec Sinya Aoki, "Conserved charges in gravity and entropy"
-  08 Dec Yasunori Lee, "Revisiting Wess-Zumino-Witten terms"



November 2020

-  20 Nov Kazunori Kohri, "[EX] Higgs vacuum metastability in primordial inflation"
-  13 Nov Takuya Okuda, "U(1) spin Chern-Simons theory and Arf invariants in two dimensions"
-  10 Nov Arata Yamamoto, "Real-time simulation of Z2 lattice gauge theory on qubits"

October 2020

-  30 Oct [Kazumi Okuyama, "JT gravity and KdV equations"](#)
-  28 Oct [Kai Schmitz, "Has NANOGrav found first evidence for cosmic strings?"](#)
-  27 Oct [Yosuke Imamura, "The superconformal index from the AdS/CFT correspondence"](#)
-  20 Oct [Yuichiro Tada, "Manifestly covariant theory of stochastic inflation"](#)
-  06 Oct [Koji Hashimoto, "Building bulk from Wilson loops"](#)

September 2020

-  29 Sep [Shi Pi, "Some Properties of the Stochastic Induced Gravitational Wave Background"](#)
-  18 Sep [Yuji Okawa, "Nonperturbative definition of closed string theory via open string field theory"](#)



01 Sep

Yuji Chinone,
"The results and achievements of the POLARBEAR experiment in the 2010s and its future in the 2020s"

August 2020



25 Aug

Masahiro Isaka,
"Low-lying level structure of p-sd shell Lambda hypernuclei with antisymmetrized molecular dynamics"



11 Aug

Masaki Yamada,
"Unified Origin of Axion and Monopole Dark Matter, and Solution to the Domain-wall Problem"



04 Aug







Yasuro Funaki,
"Alpha-particle condensate and cluster evolution in nuclei"


July 2020




29 Jul


Koichi Hattori,
"Transport phenomena in magnetic and vortical fields from hydrodynamic frameworks"


-  28 Jul Yasunori Nomura, "Black Hole Conundrum: Information vs Interior"
-  22 Jul Yoshihisa Kitazawa, "Why now? A History of Dark Energy (Japanese)"
-  21 Jul Kazushi Yamashiro, "Information geometry encoded in bulk geometry (in Japanese)"
-  15 Jul Masazumi Honda, "[KEK-PH lectures 2020] Resummation of perturbative series and Resurgence in quantum field theory II"
-  14 Jul Naoki Yamamoto, "Magnetic monopoles and fermion number violation in chiral matter"
-  08 Jul Masazumi Honda, "[KEK-PH lectures 2020] Resummation of perturbative series and Resurgence in quantum field theory I"


 07 Jul Hiromasa Takaura,
"[KEK-PH lectures
2020] Renormalon
problem in QCD
and a direction to
go beyond
perturbation
theory II"


 01 Jul Hiromasa Takaura,
"[KEK-PH lectures
2020] Renormalon
problem in QCD
and a direction to
go beyond
perturbation
theory I"


June 2020





 30 Jun Yohei Ema,
"Higgs inflation,
unitarity, and
emergence of
scalaron"

 24 Jun Kyohei Mukaida,
"Baryogenesis
from Axion
Inflation"



 23 Jun Shigenori Seki,
"Formulation and
Evaluation of
Entanglement
Entropy in Elastic
Scattering"

 19 Jun Tomonori Ugajin,
"Entanglement
between two
disjoint universes"

 17 Jun Yuta Hamada,
"Brane gaugino
condensate and
10d description of
4d de Sitter
vacua"

-  16 Jun [Yuya Tanizaki, "Modifying instanton sums in QCD"](#)
-  09 Jun [Yutaka Ookouchi, "Catalytic Creation of Baby Bubble Universe with Small Positive Cosmological Constant"](#)
-  04 Jun [Norimi Yokozaki, "SUSY models for muon g-2, and lepton flavor violations"](#)
-  02 Jun [Hidehiko Shimada, "Bose-Einstein Condensation and large-N colour confinement"](#)

May 2020

-  28 May [Teppei Kitahara, "Direct CP violation in \$K \rightarrow \mu^+ \mu^-\$ and new physics search"](#)
-  19 May [Ryosuke Sato, "Axion fragmentation and its implication for relaxion scenario"](#)

January 2020

-  01 Jan [test test, "test"](#)

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