

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. 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
-  Kentaro NISHIMURA
-  Kohta HATAKEYAMA
-  Masashi AIKO
-  Ryo YOKOKURA
-  Ryuichiro KITANO
-  Yuko URAKAWA

December 2022



20 Dec Samadrita Mukherjee, "A twisted tale of the transverse-mass tail in the W-boson mass measurement"

November 2022



22 Nov Hidenori Fukaya, "Curved domain-wall fermion and its anomaly inflow"



02 Nov Miguel Montero, "New String Theories from Discrete Theta Angles"

October 2022



18 Oct Naritaka Oshita, "Probing gravity with ringing black holes"



11 Oct Etsuko Itou, "Velocity of Sound beyond the High-Density Relativistic Limit from Lattice Simulation of Dense Two-Color QCD"



04 Oct **Guang Juan Wang, "The study of P-wave strange mesons in coupled channel framework"**

September 2022



27 Sep **Sung Hak Lim, "Measuring Galactic Dark Matter through Unsupervised Machine Learning"**



13 Sep **Kazushi Yamashiro, "Target space entanglement in a matrix model for the bubbling geometry"**

August 2022



30 Aug **Masaaki Tomii, "Lattice calculation of $K \rightarrow \pi \pi$ decay on the lattice with periodic boundary conditions"**



22 Aug Choong Sun Kim, "[EX] Is the sub-eV active neutrino Dirac or Majorana? (New alternative method to β decay, by using B^0 (or $\text{Upsilon}(1s)$) $\rightarrow \mu^+ \mu^- \nu \bar{\nu}$)"

July 2022



26 Jul Kei-ichi Maeda, "Relativistic Dynamical System and Gravitational Waves"




25 Jul Hikaru Kawai, "Do different observers see different physics?"





25 Jul Po-Yen Tseng, "Correlated signals of first-order phase transition in the dark sector"





19 Jul Muneto Nitta, "Relations among topological solitons"

-  15 Jul [Misao Sasaki, "Multiple classical histories as a solution to the black hole information loss paradox"](#)

-  14 Jul [Yoshio Kikukawa, "Two approaches to non-abelian chiral gauge theory on the lattice with exact gauge invariance"](#)

-  12 Jul [Nobuyuki Matsumoto, "Comment on the subtlety of defining real-time path integral in lattice gauge theories"](#)

-  08 Jul [Yuki Sato, "Tensor network approach to 2d Lorentzian quantum Regge calculus"](#)

-  07 Jul [Akihiro Ishibashi, "Quantum improved black holes in asymptotic safety and thermodynamics"](#)

June 2022

-  21 Jun Joshua Eby,
"Probing
Ultralight Dark
Matter and the
Very Local
Density from
Earth and
Space"





-  14 Jun Guido D'Amico,
"The
Cosmological
Analysis of the
SDSS/BOSS
data from the
EFTofLSS"

-  10 Jun Masahide
Yamaguchi,
"Polychronic
Tunneling: New
Tunneling
Processes
Experiencing
Euclidean and
Lorentzian
Evolution
Simultaneously"


-  09 Jun Joshua
Ruderman,
"Dark Sector
Prospects Away
from
Equilibrium"

-  07 Jun Hajime Fukuda,
"On the direct
detection of the
QCD axion dark
matter"

May 2022

-  24 May [Motohiko Yoshimura, "Dynamical relaxation of cosmological constant and stronger gravity in the early universe"](#)
-  19 May [Akinori Matsumoto, "Primordial He abundance from extremely metal-poor galaxies: Implications for the lepton asymmetry and the H0 tension"](#)
-  17 May [Daiki Ueda, "Entropy constraints on effective field theory"](#)
-  13 May [Kentaro Yoshida, "Yang-Baxter sigma models from 4D Chern-Simons theory"](#)

April 2022

-  26 Apr [Koji Hashimoto, "A bound on energy dependence of chaos"](#)



22 Apr Yuki Yokokura,
"Interior Metric
of Slowly
Formed Black
Holes in a Heat
Bath"



12 Apr Ryosuke Sato,
"Chiral
symmetry
breaking in large
N QCD"

March 2022



29 Mar Sinya Aoki,
"Conserved
non-Noether
charge in
general
relativity:
Physical
definition vs.
Noether's 2nd
theorem"



04 Mar Yuhma Asano,
"Classical
solutions of pre-
gravity theory in
the IKKT matrix
model"




February 2022






25 Feb Shan-ming
Ruan, "On the
Page curve
under final state
projection"




22 Feb Yasuaki Hikida,
"dS₃/CFT₂
correspondence"


-  16 Feb Masaki Oshikawa, "Resolving the Berezinskii-Kosterlitz-Thouless transition in the two-dimensional XY model with tensor-network-based level spectroscopy"
-  04 Feb Hiromasa Watanabe, "Confinement/deconfinement transition in the D0-brane matrix model -- A sign of M-theory?"
-  01 Feb Kiyoharu Kawana, "Multi-critical point principle and its Phenomenology"


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"](#)




June 2021

-  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 Pawlowski,
"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
Fujiiwara, "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"

January 2021



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 [Teppey 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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