

FoPM International Symposium



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Monday, 6 February 2023 09:30 (5 minutes)

Presenter: HOSHINO, Masahiro (Dean, University of Tokyo)

Session Classification: Plenary Session I

Contribution ID: 2

Type: **not specified**

FoPM

Monday, 6 February 2023 09:40 (20 minutes)

Presenter: MURAYAMA, Hitoshi (Kavli IPMU)

Session Classification: Plenary Session I

Contribution ID: 3

Type: **not specified**

Diversity is more than counting, and more than women: Looking at diversity from a broad perspective

Monday, 6 February 2023 10:00 (30 minutes)

Presenter: ALEXANDER, Ronni (Kobe University)

Session Classification: Plenary Session I

Contribution ID: 4

Type: **not specified**

Stopping the light into quantum memories: A path to a future quantum internet

Monday, 6 February 2023 10:30 (30 minutes)

Presenter: LAURAT, Julien (Sorbonne Université)

Session Classification: Plenary Session I

Contribution ID: 5

Type: **not specified**

From exactly solvable models of statistical mechanics to combinatorics

Monday, 6 February 2023 14:00 (30 minutes)

Presenter: ZINN-JUSTIN, Paul (University of Melbourne)

Session Classification: Plenary Session II

Contribution ID: 6

Type: **not specified**

Cosmology with the Dark Energy Survey: Constraining fundamental physics with 100 million galaxies (and over 400 scientists)

Monday, 6 February 2023 14:30 (30 minutes)

Presenter: KRAUSE, Elisabeth (Arizona)

Session Classification: Plenary Session II

Contribution ID: 7

Type: **not specified**

Optical quantum computers with quantum teleportation

Monday, 6 February 2023 15:00 (30 minutes)

Presenter: FURUSAWA, Akira (University of Tokyo)

Session Classification: Plenary Session II

Contribution ID: 8

Type: **not specified**

Partial transpose for quantum matter, spacetime and information

Tuesday, 7 February 2023 09:30 (30 minutes)

Presenter: RYU, Shinsei (Princeton)

Session Classification: Plenary Session III

Contribution ID: 9

Type: **not specified**

The cosmological context of our local group of galaxies

Tuesday, 7 February 2023 10:00 (30 minutes)

Presenter: WYSE, Rosemary (Johns Hopkins)

Session Classification: Plenary Session III

Contribution ID: **10**

Type: **not specified**

Advancing the frontiers of functional bioimaging by engineering of glowing proteins

Tuesday, 7 February 2023 10:30 (30 minutes)

Presenter: CAMPBELL, Robert (University of Tokyo)

Session Classification: Plenary Session III

Contribution ID: 11

Type: **not specified**

What makes a world habitable?

Tuesday, 7 February 2023 14:00 (30 minutes)

Presenter: BRAIN, David (University of Colorado, Boulder)

Session Classification: Plenary Session IV

Contribution ID: 12

Type: **not specified**

Macroscopic properties of complex systems: chaotic versus integrable dynamics

Tuesday, 7 February 2023 14:30 (30 minutes)

Presenter: OLLA, Stefano (Université Paris Dauphine)

Session Classification: Plenary Session IV

Contribution ID: 13

Type: **not specified**

Computer simulations in materials science

Tuesday, 7 February 2023 15:00 (30 minutes)

Presenter: NISHINO, Masamichi (NIMS)

Session Classification: Plenary Session IV

Contribution ID: 14

Type: **not specified**

Creative brain and creative environment

Wednesday, 8 February 2023 11:30 (30 minutes)

Presenter: CHAO, Zenas (IRCN)

Session Classification: Plenary Session V

Contribution ID: 15

Type: **not specified**

Science Communication: The value and importance of engaging with non-specialist audiences

Wednesday, 8 February 2023 12:00 (30 minutes)

Presenter: DORAN, Heather (University of Dundee)

Session Classification: Plenary Session V

Contribution ID: 16

Type: **not specified**

Closing Remarks

Wednesday, 8 February 2023 12:30 (15 minutes)

Presenter: MURAYAMA, Hitoshi (Kavli IPMU)

Session Classification: Plenary Session V

Contribution ID: 17

Type: **not specified**

Logistics

Monday, 6 February 2023 09:35 (5 minutes)

Presenter: HARRIS, Kate (University of Tokyo)

Session Classification: Plenary Session I

Contribution ID: **18**

Type: **not specified**

Solar Flare: A Key to Understanding the Energetic Universe

Monday, 6 February 2023 11:30 (15 minutes)

Presenter: NAGASAWA, Shunsaku

Session Classification: Parallel Session 1A

Contribution ID: **19**

Type: **not specified**

Terahertz third harmonic generation in superconductors

Monday, 6 February 2023 11:45 (15 minutes)

Presenter: MATSUMOTO, Haruki

Session Classification: Parallel Session 1A

Contribution ID: 20

Type: **not specified**

Dissecting active neuronal population in moving fly larvae

Monday, 6 February 2023 12:00 (15 minutes)

Presenter: DATE, Takahisa

Session Classification: Parallel Session 1A

Contribution ID: 21

Type: **not specified**

Dispersal processes of protoplanetary disks

Monday, 6 February 2023 12:15 (15 minutes)

Presenter: KOMAKI, Ayano

Session Classification: Parallel Session 1A

Contribution ID: 22

Type: **not specified**

All local conserved quantities in the one-dimensional Hubbard model

Monday, 6 February 2023 11:30 (15 minutes)

Presenter: FUKAI, Kohei

Session Classification: Parallel Session 1B

Contribution ID: 23

Type: **not specified**

Photoelectron spectroscopy of ligand-protected superatoms and superatomic molecules

Monday, 6 February 2023 11:45 (15 minutes)

Presenter: ITO, Shun

Session Classification: Parallel Session 1B

Contribution ID: 24

Type: **not specified**

Axion dark matter search with optical ring cavity

Monday, 6 February 2023 12:00 (15 minutes)

Presenter: FUJIMOTO, Hiroki

Session Classification: Parallel Session 1B

Contribution ID: 25

Type: **not specified**

Estimation of phase-space displacement using non-Gaussian states

Monday, 6 February 2023 12:15 (15 minutes)

Presenter: HANAMURA, Fumiya

Session Classification: Parallel Session 1B

Contribution ID: 26

Type: **not specified**

Three-dimensional Dirac electrons driven by circularly polarized light

Monday, 6 February 2023 11:30 (15 minutes)

Presenter: HIRAI, Yoshua

Session Classification: Parallel Session 1C

Contribution ID: 27

Type: **not specified**

Visualizing structural heterogeneity of proteins by local Fourier transformation

Monday, 6 February 2023 11:45 (15 minutes)

Presenter: LIU, Hanjin

Session Classification: Parallel Session 1C

Contribution ID: 28

Type: **not specified**

Radiation process of electrons in relativistic Alfven wave for high energy astrophysics

Monday, 6 February 2023 12:00 (15 minutes)

Presenter: GOTO, Ryota

Session Classification: Parallel Session 1C

Contribution ID: 29

Type: **not specified**

In Vivo Imaging Flow Cytometry for Leukocyte Characterization

Monday, 6 February 2023 12:15 (15 minutes)

Presenter: CHEN, Junyu

Session Classification: Parallel Session 1C

Contribution ID: **30**

Type: **not specified**

Standard model of particle physics

Monday, 6 February 2023 16:30 (15 minutes)

Presenter: KANAZAWA, Yoshiki

Session Classification: Parallel Session 2A

Contribution ID: 31

Type: **not specified**

Log-rank test for imbalanced data with matching

Monday, 6 February 2023 16:45 (15 minutes)

Presenter: BABA, Tomoya

Session Classification: Parallel Session 2A

Contribution ID: 32

Type: **not specified**

THz Spectroscopy of Optical Pumped Cuprate Superconductor

Monday, 6 February 2023 17:00 (15 minutes)

Presenter: NISHIDA, Morihiko

Session Classification: Parallel Session 2A

Contribution ID: 33

Type: **not specified**

Narain CFTs from quantum error-correcting codes

Monday, 6 February 2023 17:15 (15 minutes)

Presenter: KAWABATA, Koki

Session Classification: Parallel Session 2A

Contribution ID: 34

Type: **not specified**

Single Spin-Flip Dynamics in the Dissipative Fermi-Hubbard Model

Monday, 6 February 2023 17:30 (15 minutes)

Presenter: YOSHIDA, Hironobu

Session Classification: Parallel Session 2A

Contribution ID: 35

Type: **not specified**

Study of Pion Production in Radioactive Isotope Nuclear Reactions around Threshold Energy

Monday, 6 February 2023 16:30 (15 minutes)

Presenter: KOKUBUN, Kei

Session Classification: Parallel Session 2B

Contribution ID: 36

Type: **not specified**

Synthesis of chiral-asymmetric metal complexes inside DNA three-way junction structures

Monday, 6 February 2023 16:45 (15 minutes)

Presenter: KUDO, Naofumi

Session Classification: Parallel Session 2B

Contribution ID: 37

Type: **not specified**

Biophysics of the cells through quantitative phase microscopy and machine learning

Monday, 6 February 2023 17:00 (15 minutes)

Presenter: INUTSUKA, Yugo

Session Classification: Parallel Session 2B

Contribution ID: **38**

Type: **not specified**

Configuration-space-like description of Bott periodicity and bulk-edge correspondence

Monday, 6 February 2023 17:15 (15 minutes)

Presenter: NATORI, Masaki

Session Classification: Parallel Session 2B

Contribution ID: 39

Type: **not specified**

Decomposition of irreversibility

Monday, 6 February 2023 17:30 (15 minutes)

Presenter: YOSHIMURA, Kohei

Session Classification: Parallel Session 2B

Contribution ID: 40

Type: **not specified**

Utility of the meteorological satellite Himawari-8 as a multi-band space telescope

Monday, 6 February 2023 16:30 (15 minutes)

Presenter: UNO, Shinsuke

Session Classification: Parallel Session 2C

Contribution ID: 41

Type: **not specified**

The population of compact binary coalescence – mechanism and constraint

Monday, 6 February 2023 16:45 (15 minutes)

Presenter: IWAYA, Masaki

Session Classification: Parallel Session 2C

Contribution ID: 42

Type: **not specified**

Stabilization mechanism of magnetic skyrmion

Monday, 6 February 2023 17:00 (15 minutes)

Presenter: YANBE, Ryota

Session Classification: Parallel Session 2C

Contribution ID: 43

Type: **not specified**

Turbulence Accelerates Relativistic Particles in Entire Volume of Galaxy Clusters

Monday, 6 February 2023 17:15 (15 minutes)

Presenter: NISHIWAKI, Kosuke

Session Classification: Parallel Session 2C

Contribution ID: 44

Type: **not specified**

Extended R-matrix description of two-proton radioactivity

Monday, 6 February 2023 17:30 (15 minutes)

Presenter: ZHANG, Zhaozhan

Session Classification: Parallel Session 2C

Contribution ID: 45

Type: **not specified**

Aspects of critical phenomena

Tuesday, 7 February 2023 11:30 (15 minutes)

Presenter: OKUYAMA, Yoshitaka

Session Classification: Parallel Session 3A

Contribution ID: 46

Type: **not specified**

Quantum communication with low-depth random quantum circuits

Tuesday, 7 February 2023 11:45 (15 minutes)

Presenter: TAMIYA, Shiro

Session Classification: Parallel Session 3A

Contribution ID: 47

Type: **not specified**

Neutrino oscillation analysis with newly available neutron information

Tuesday, 7 February 2023 12:00 (15 minutes)

Presenter: MIKI, Shintaro

Session Classification: Parallel Session 3A

Contribution ID: 48

Type: **not specified**

Development of broadband vibrational spectroscopy for surface analysis

Tuesday, 7 February 2023 12:15 (15 minutes)

Presenter: KAMEYAMA, Risako

Session Classification: Parallel Session 3A

Contribution ID: 49

Type: **not specified**

Quantum many-body scars in spin models with multi-body interactions

Tuesday, 7 February 2023 11:30 (15 minutes)

Presenter: SANADA, Kazuyuki

Session Classification: Parallel Session 3B

Contribution ID: 50

Type: **not specified**

Multiplex flow cytometry with Raman tags

Tuesday, 7 February 2023 11:45 (15 minutes)

Presenter: NISHIYAMA, Ryo

Session Classification: Parallel Session 3B

Contribution ID: 51

Type: **not specified**

Can we detect a non-trivial family of n -dim knots through angle measurements ?

Tuesday, 7 February 2023 12:00 (15 minutes)

Presenter: YOSHIOKA, Leo

Session Classification: Parallel Session 3B

Contribution ID: 52

Type: **not specified**

An introduction to p-adic differential equations

Tuesday, 7 February 2023 11:30 (15 minutes)

Presenter: WANG, Peiduo

Session Classification: Parallel Session 3C

Contribution ID: 53

Type: **not specified**

Defining the initial condition of high-mass star formation by observations

Tuesday, 7 February 2023 11:45 (15 minutes)

Presenter: MORII, Kaho

Session Classification: Parallel Session 3C

Contribution ID: 54

Type: **not specified**

BPS/CFT correspondence of supergroup gauge theories

Tuesday, 7 February 2023 12:00 (15 minutes)

Presenter: NOSHITA, Go

Session Classification: Parallel Session 3C

Contribution ID: 55

Type: **not specified**

Generation of highly-pure single photon states at telecommunication wavelength

Tuesday, 7 February 2023 12:15 (15 minutes)

Presenter: KAWASAKI, Akito

Session Classification: Parallel Session 3C

Contribution ID: 56

Type: **not specified**

1. The structure groups of a 4-manifold bundle and its relation to the vector bundle which consists of self-dual harmonic 2-forms

Tuesday, 7 February 2023 16:00 (1 minute)

Presenter: ADACHI, Mitsuyoshi

Session Classification: Poster Session

Contribution ID: 57

Type: **not specified**

2. Characterization of Microplastics by Raman Flow Particle Analyzer

Tuesday, 7 February 2023 16:01 (1 minute)

Presenter: AKITA, Jun

Session Classification: Poster Session

Contribution ID: 58

Type: **not specified**

3. Continuous-variable quantum approximate optimization algorithm for quadratic function

Tuesday, 7 February 2023 16:02 (1 minute)

Presenter: ANAI, Keitaro

Session Classification: Poster Session

Contribution ID: 59

Type: **not specified**

4. Index Theorem and Heat Kernel (☒)

Tuesday, 7 February 2023 16:03 (1 minute)

Presenter: AOYAMA, Temma

Session Classification: Poster Session

Contribution ID: **60**

Type: **not specified**

5. semiclassical analysis(☒)

Tuesday, 7 February 2023 16:04 (1 minute)

Presenter: ARITA, Shinichi

Session Classification: Poster Session

Contribution ID: **61**

Type: **not specified**

6. Electromagnetic "Charge Beads" from Dark Matter

Tuesday, 7 February 2023 16:05 (1 minute)

Presenter: CHITOSE, Akifumi

Session Classification: Poster Session

Contribution ID: 62

Type: **not specified**

7. Hall effect of triplon in quantum spin dimer materials

Tuesday, 7 February 2023 16:06 (1 minute)

Presenter: ESAKI, Nanse

Session Classification: Poster Session

Contribution ID: 63

Type: **not specified**

8. Magnon spin shift current in collinear antiferromagnets

Tuesday, 7 February 2023 16:07 (1 minute)

Presenter: FUJIWARA, Kosuke

Session Classification: Poster Session

Contribution ID: 64

Type: **not specified**

9. Development of a Radio Frequency Dipole Mass Filter for the Francium Permanent Electric Dipole Moment Search

Tuesday, 7 February 2023 16:08 (1 minute)

Presenter: FUKASE, Mirai

Session Classification: Poster Session

Contribution ID: 65

Type: **not specified**

10. Electronic states of Bi(111) surface studied by time-, spin- and angle-resolved photoemission spectroscopy

Tuesday, 7 February 2023 16:09 (1 minute)

Presenter: FUKUSHIMA, Yuto

Session Classification: Poster Session

Contribution ID: 66

Type: **not specified**

11. Oscillation properties of microcrack-bearing α -quartz derived from molecular dynamics simulations

Tuesday, 7 February 2023 16:10 (1 minute)

Presenter: FUNAHASHI, Ikuchi

Session Classification: Poster Session

Contribution ID: 67

Type: **not specified**

12. Quantum sensor in two dimensional van der Waals material

Tuesday, 7 February 2023 16:11 (1 minute)

Presenter: GU, Hao

Session Classification: Poster Session

Contribution ID: 68

Type: **not specified**

13. Analyzing the Atmosphere of Exoplanets in Neptune Desert

Tuesday, 7 February 2023 16:12 (1 minute)

Presenter: GU, Ziyang

Session Classification: Poster Session

Contribution ID: 69

Type: **not specified**

14. Analysis of the gravity wave on Venusian atmosphere revealed by LIR on board AKATSUKI (☒)

Tuesday, 7 February 2023 16:13 (1 minute)

Presenter: GUO, Zhuan

Session Classification: Poster Session

Contribution ID: 70

Type: **not specified**

15. Intoduction to Geometric Neural Networks

Tuesday, 7 February 2023 16:14 (1 minute)

Presenter: GYOTOKU, Yoshihiro

Session Classification: Poster Session

Contribution ID: 71

Type: **not specified**

16. KK-theory through localization algebras

Tuesday, 7 February 2023 16:15 (1 minute)

Presenter: HAFID, Ayoub

Session Classification: Poster Session

Contribution ID: 72

Type: **not specified**

17. synthesis and characterization of novel optoelectronic materials based on COPV structure

Tuesday, 7 February 2023 16:16 (1 minute)

Presenter: HAN, Xiu

Session Classification: Poster Session

Contribution ID: 73

Type: **not specified**

18. Subaru PFS: Analysis for 2D PSF modeling

Tuesday, 7 February 2023 16:17 (1 minute)

Presenter: HAYASHI, Kota

Session Classification: Poster Session

Contribution ID: 74

Type: **not specified**

19.

Tuesday, 7 February 2023 16:18 (1 minute)

Presenter: HONG, Muzi

Session Classification: Poster Session

Contribution ID: 75

Type: **not specified**

20. Topos: the unexpected bridge between Logic and Geometry

Tuesday, 7 February 2023 16:19 (1 minute)

Presenter: HORA, Ryuya

Session Classification: Poster Session

Contribution ID: 76

Type: **not specified**

21. Label-free Microscopy for Imaging Live Cells

Tuesday, 7 February 2023 16:20 (1 minute)

Presenter: HORIE, Kohki

Session Classification: Poster Session

Contribution ID: 77

Type: **not specified**

22. Equivariant covering spaces of quantum homogeneous spaces

Tuesday, 7 February 2023 16:21 (1 minute)

Presenter: HOSHINO, Mao

Session Classification: Poster Session

Contribution ID: 78

Type: **not specified**

23. Research on Low-Loss High-Repetition-Rate Optical Switch with Quantum Teleportation

Tuesday, 7 February 2023 16:22 (1 minute)

Presenter: IDE, Ryuhoh

Session Classification: Poster Session

Contribution ID: **81**

Type: **not specified**

24. Design method of a broadband planar magic-T: a 6-14GHz scaled model for mm/submm camera

Tuesday, 7 February 2023 16:23 (1 minute)

Presenter: INOUE, Shuhei

Session Classification: Poster Session

Contribution ID: 82

Type: **not specified**

25. A combinatorial structure of Gelfand-Tsetlin patterns and a natural bijection between monotone triangles and shifted Gelfand-Tsetlin patterns

Tuesday, 7 February 2023 16:24 (1 minute)

Presenter: INOUE, Takuya

Session Classification: Poster Session

Contribution ID: 83

Type: **not specified**

26. Development of a fine pixel semiconductor X-ray polarimeter

Tuesday, 7 February 2023 16:25 (1 minute)

Presenter: IWATA, Toshiya

Session Classification: Poster Session

Contribution ID: 84

Type: **not specified**

27. R^2 inflation with the baryogenesis scenario

Tuesday, 7 February 2023 16:26 (1 minute)

Presenter: JEONG, Hyun

Session Classification: Poster Session

Contribution ID: 85

Type: **not specified**

28. Simulation of planetesimal accretion with realistic gas disc evolution

Tuesday, 7 February 2023 16:27 (1 minute)

Presenter: KAMBARA, Yuki

Session Classification: Poster Session

Contribution ID: **86**

Type: **not specified**

29. The bigraded Rumin complex and Lee conjecture

Tuesday, 7 February 2023 16:28 (1 minute)

Presenter: KANDA, Shuhou

Session Classification: Poster Session

Contribution ID: 87

Type: **not specified**

30. Sommerfeld effect

Tuesday, 7 February 2023 16:29 (1 minute)

Presenter: KARAYAMA, Kiri

Session Classification: Poster Session

Contribution ID: **88**

Type: **not specified**

31. Lane-Emden equation with supercritical nonlinearity

Tuesday, 7 February 2023 16:30 (1 minute)

Presenter: KATAYAMA, Sho

Session Classification: Poster Session

Contribution ID: **89**

Type: **not specified**

32. Indirect detection of Dark Matter with radio observation

Tuesday, 7 February 2023 16:31 (1 minute)

Presenter: KAWAI, Chikara

Session Classification: Poster Session

Contribution ID: **90**

Type: **not specified**

33. Replica method and Rényi entropies

Tuesday, 7 February 2023 16:32 (1 minute)

Presenter: KAWASUMI, Kotaro

Session Classification: Poster Session

Contribution ID: **91**

Type: **not specified**

34. Kitaev nanoribbon with boundary dephasing

Tuesday, 7 February 2023 16:33 (1 minute)

Presenter: KITAHAMA, Shunta

Session Classification: Poster Session

Contribution ID: 92

Type: **not specified**

35. The relation between morphology of *Euglena gracilis* and their removal efficiency of heavy metals

Tuesday, 7 February 2023 16:34 (1 minute)

Presenter: KOBAYASHI, Tsubasa

Session Classification: Poster Session

Contribution ID: 93

Type: **not specified**

36. Target-oriented design of helical nanotube molecules for rolled incommensurate bilayers

Tuesday, 7 February 2023 16:35 (1 minute)

Presenter: KOTANI, Yuki

Session Classification: Poster Session

Contribution ID: 94

Type: **not specified**

37. Yang-Lee Singularity in BCS Superconductivity

Tuesday, 7 February 2023 16:36 (1 minute)

Presenter: LI, Hongchao

Session Classification: Poster Session

Contribution ID: 95

Type: **not specified**

38. Cavity Moiré Materials: controlling correlated phases of matter with quantum light-matter couplings

Tuesday, 7 February 2023 16:37 (1 minute)

Presenter: MASUKI, Kanta

Session Classification: Poster Session

Contribution ID: 96

Type: **not specified**

39. Primordial Helium Abundance Probed by Subaru Spectroscopy: A Test of the Cosmological Model

Tuesday, 7 February 2023 16:38 (1 minute)

Presenter: MATSUMOTO, Akinori

Session Classification: Poster Session

Contribution ID: 97

Type: **not specified**

40. Calibration and Timing Resolution Evaluation of Liquid Xenon Gamma Ray Detector in MEG II Experiment

Tuesday, 7 February 2023 16:39 (1 minute)

Presenter: MATSUSHITA, Ayaka

Session Classification: Poster Session

Contribution ID: 98

Type: **not specified**

41. Shaping microwave photons with frequency tunability using a fixed-frequency superconducting qubit

Tuesday, 7 February 2023 16:40 (1 minute)

Presenter: MIYAMURA, Takeaki

Session Classification: Poster Session

Contribution ID: 99

Type: **not specified**

42. Next Generation Biosensors Enabled by High-speed Visualization of Dynamic Mechanisms

Tuesday, 7 February 2023 16:41 (1 minute)

Presenter: MIYAZAKI, Ikumi

Session Classification: Poster Session

Contribution ID: **100**

Type: **not specified**

43. Variational approach to Kondo effect in cavity QED

Tuesday, 7 February 2023 16:42 (1 minute)

Presenter: MOCHIDA, Jun

Session Classification: Poster Session

Contribution ID: **101**

Type: **not specified**

44. Evaluation systems for the development of biosensors to measure force on cells

Tuesday, 7 February 2023 16:43 (1 minute)

Presenter: MUKAI, Tomoya

Session Classification: Poster Session

Contribution ID: **102**

Type: **not specified**

45. Towards the application of thermodynamic trade-off relations to reaction-diffusion systems

Tuesday, 7 February 2023 16:44 (1 minute)

Presenter: NAGAYAMA, Ryuna

Session Classification: Poster Session

Contribution ID: **103**

Type: **not specified**

46. Graphical Approach for Characterization of Non-Gaussian Quantum Process

Tuesday, 7 February 2023 16:45 (1 minute)

Presenter: NAGAYOSHI, Hironari

Session Classification: Poster Session

Contribution ID: **104**

Type: **not specified**

47. New mysterious signal from the dawn of our universe ~a study of its precise calculation ~

Tuesday, 7 February 2023 16:46 (1 minute)

Presenter: NAOKAWA, Fumihiro

Session Classification: Poster Session

Contribution ID: 105

Type: **not specified**

48. Quantitative magnetic imaging of superconducting quantum vortex using solid-state quantum spin sensor

Tuesday, 7 February 2023 16:47 (1 minute)

Presenter: NISHIMURA, Shunsuke

Session Classification: Poster Session

Contribution ID: **106**

Type: **not specified**

49. Boltzmann equation in two-dimensional electron system with spin-orbit coupling

Tuesday, 7 February 2023 16:48 (1 minute)

Presenter: NISHIMURA, Naoki

Session Classification: Poster Session

Contribution ID: **107**

Type: **not specified**

50. Broadband quantum memory with a concatenated optical cavity

Tuesday, 7 February 2023 16:49 (1 minute)

Presenter: NOMURA, Takefumi

Session Classification: Poster Session

Contribution ID: **108**

Type: **not specified**

51. Universal relations on nonequilibrium entropy in classical fluctuating systems

Tuesday, 7 February 2023 16:50 (1 minute)

Presenter: OHGA, Naruo

Session Classification: Poster Session

Contribution ID: **109**

Type: **not specified**

52. Axion detection via superfluid ^3He using quantum technologies

Tuesday, 7 February 2023 16:51 (1 minute)

Presenter: OKABE, Risshin

Session Classification: Poster Session

Contribution ID: **110**

Type: **not specified**

53. On 2d Rational CFTs

Tuesday, 7 February 2023 16:52 (1 minute)

Presenter: OKADA, Masaki

Session Classification: Poster Session

Contribution ID: 111

Type: **not specified**

54. Direct measurement of the $^{26}\text{Si}(\alpha, p)^{29}\text{P}$ reaction for the nucleosynthesis in the X-ray bursts

Tuesday, 7 February 2023 16:53 (1 minute)

Presenter: OKAWA, Kodai

Session Classification: Poster Session

Contribution ID: 112

Type: **not specified**

55. Orbital order in a strongly correlated electron systems

Tuesday, 7 February 2023 16:54 (1 minute)

Presenter: OMURA, Satoshi

Session Classification: Poster Session

Contribution ID: 113

Type: **not specified**

56. Waveform inversion for the 3D S-wave velocity structure in D" beneath the Southern Atlantic

Tuesday, 7 February 2023 16:55 (1 minute)

Presenter: OTSURU, Keisuke

Session Classification: Poster Session

Contribution ID: 114

Type: **not specified**

57. Automorphisms of Calabi-Yau manifolds

Tuesday, 7 February 2023 16:56 (1 minute)

Presenter: SAKAMOTO, Renji

Session Classification: Poster Session

Contribution ID: 115

Type: **not specified**

58. Label-free observation of dynamics of small particles by interferometric scattering microscopy

Tuesday, 7 February 2023 16:57 (1 minute)

Presenter: SAWA, Masato

Session Classification: Poster Session

Contribution ID: 116

Type: **not specified**

59. Quantitative analysis of Akt isoforms' temporal dynamics and downstream regulation with mathematical model-aided optogenetics

Tuesday, 7 February 2023 16:58 (1 minute)

Presenter: SEKINE, Yuka

Session Classification: Poster Session

Contribution ID: 117

Type: **not specified**

60. Study on first-level trigger of the Belle II experiment using upgraded silicon strip detector

Tuesday, 7 February 2023 16:59 (1 minute)

Presenter: SHIMASAKI, Tomoyuki

Session Classification: Poster Session

Contribution ID: **118**

Type: **not specified**

61. Fundamental equations for open quantum many-body systems

Tuesday, 7 February 2023 17:00 (1 minute)

Presenter: SHIRAISHI, Koki

Session Classification: Poster Session

Contribution ID: **119**

Type: **not specified**

62. Search for black holes by the TESS survey of light variation

Tuesday, 7 February 2023 17:01 (1 minute)

Presenter: SHIRAISHI, Yuta

Session Classification: Poster Session

Contribution ID: **120**

Type: **not specified**

63. Monte Carlo Methods and Physics

Tuesday, 7 February 2023 17:02 (1 minute)

Presenter: SHIRATANI, Sora

Session Classification: Poster Session

Contribution ID: 121

Type: **not specified**

64. Development for Axion Search using Quantum Non-Demolition Detection of Magnons

Tuesday, 7 February 2023 17:03 (1 minute)

Presenter: SINGH SHRESTHA, Yaman

Session Classification: Poster Session

Contribution ID: 122

Type: **not specified**

65. Chern Simons theory and Quantum Hall Effect

Tuesday, 7 February 2023 17:04 (1 minute)

Presenter: SUDO, Hiroyuki

Session Classification: Poster Session

Contribution ID: 123

Type: **not specified**

66. Simultaneous laser stabilization by optical frequency comb for Sr optical lattice clocks

Tuesday, 7 February 2023 17:05 (1 minute)

Presenter: SUEKANE, Kai

Session Classification: Poster Session

Contribution ID: 124

Type: **not specified**

67. Thermoelectric properties in semimetals with inelastic electron-hole scattering

Tuesday, 7 February 2023 17:06 (1 minute)

Presenter: TAKAHASHI, Keigo

Session Classification: Poster Session

Contribution ID: 125

Type: **not specified**

68. Grand Unified Theory and Proton Decay

Tuesday, 7 February 2023 17:07 (1 minute)

Presenter: TAKAHASHI, Hiroki

Session Classification: Poster Session

Contribution ID: 126

Type: **not specified**

69. Evaluation of superconducting nano strip photon-number-resolving detectors with additional coils

Tuesday, 7 February 2023 17:08 (1 minute)

Presenter: TAKAHASHI, Kazuma

Session Classification: Poster Session

Contribution ID: 127

Type: **not specified**

70. Mining for the Protoclusters at $z \approx 4$ from HSC-SSP photometric dataset with Deep Learning

Tuesday, 7 February 2023 17:09 (1 minute)

Presenter: TAKEDA, Yoshihiro

Session Classification: Poster Session

Contribution ID: 128

Type: **not specified**

71. Continuous cooling and extraction of ultracold strontium atoms by a moving lattice

Tuesday, 7 February 2023 17:10 (1 minute)

Presenter: TAKEUCHI, Ryoto

Session Classification: Poster Session

Contribution ID: 129

Type: **not specified**

72. Programmable generation of optical quantum states with two waveguide optical parametric amplifiers

Tuesday, 7 February 2023 17:11 (1 minute)

Presenter: TOMODA, Hiroko

Session Classification: Poster Session

Contribution ID: 130

Type: **not specified**

73. Search for dust-obscured supermassive black holes in the early universe

Tuesday, 7 February 2023 17:12 (1 minute)

Presenter: TSUJITA, Akiyoshi

Session Classification: Poster Session

Contribution ID: 131

Type: **not specified**

74. Cosmic Reionization History and Sources Probed by Imaging and Spectroscopy with the Subaru Telescope

Tuesday, 7 February 2023 17:13 (1 minute)

Presenter: UMEDA, Hiroya

Session Classification: Poster Session

Contribution ID: 132

Type: **not specified**

75. Developing a high-resolution Doppler broadening spectroscopy for cold positronium

Tuesday, 7 February 2023 17:14 (1 minute)

Presenter: UOZUMI, Ryosuke

Session Classification: Poster Session

Contribution ID: 133

Type: **not specified**

76. Intelligent Disease Classification Based on Platelet Imaging System

Tuesday, 7 February 2023 17:15 (1 minute)

Presenter: WANG, Huidong

Session Classification: Poster Session

Contribution ID: 134

Type: **not specified**

77. Conformal field theories and error correcting codes

Tuesday, 7 February 2023 17:16 (1 minute)

Presenter: YAHAGI, Shinichiro

Session Classification: Poster Session

Contribution ID: 135

Type: **not specified**

78. Quantum algorithm for collisionless Boltzmann simulation

Tuesday, 7 February 2023 17:17 (1 minute)

Presenter: YAMAZAKI, Soichiro

Session Classification: Poster Session

Contribution ID: 136

Type: **not specified**

79. Penalized estimation for non-identifiable models

Tuesday, 7 February 2023 17:18 (1 minute)

Presenter: YOSHIDA, Junichiro

Session Classification: Poster Session

Contribution ID: 137

Type: **not specified**

80. Floquet Many-body Theory of the Driven BCS Superconductors and its Application to High Harmonic Generations

Tuesday, 7 February 2023 17:19 (1 minute)

Presenter: ZHANG, Huanyu

Session Classification: Poster Session

Contribution ID: **138**

Type: **not specified**

81.

Tuesday, 7 February 2023 17:20 (1 minute)

Presenter: ZHAO, Yaqi

Session Classification: Poster Session

Contribution ID: 139

Type: **not specified**

Assisting variational quantum algorithms with classically simulatable quantum circuits

Wednesday, 8 February 2023 09:30 (15 minutes)

Presenter: WATANABE, Kaisei

Session Classification: Parallel Session 4A

Contribution ID: 140

Type: **not specified**

All-optical quantum operation for ultra-fast quantum information processing

Wednesday, 8 February 2023 09:45 (15 minutes)

Presenter: YAMASHIMA, Taichi

Session Classification: Parallel Session 4A

Contribution ID: 141

Type: **not specified**

Microwave imaging using diamond quantum sensor

Wednesday, 8 February 2023 10:00 (15 minutes)

Presenter: OGAWA, Kensuke

Session Classification: Parallel Session 4A

Contribution ID: 142

Type: **not specified**

Atomic-Resolution Direct Observation of Metastable Intermediates in Crystallization

Wednesday, 8 February 2023 10:15 (15 minutes)

Presenter: SAKAKIBARA, Masaya

Session Classification: Parallel Session 4A

Contribution ID: 143

Type: **not specified**

Integration test of Simons Observatory small aperture telescope

Wednesday, 8 February 2023 10:30 (15 minutes)

Presenter: TERASAKI, Tomoki

Session Classification: Parallel Session 4A

Contribution ID: 144

Type: **not specified**

Development of X-ray absorption measurement method for surface reaction under 1 atm

Wednesday, 8 February 2023 09:30 (15 minutes)

Presenter: SHIBUYA, Kohei

Session Classification: Parallel Session 4B

Contribution ID: 145

Type: **not specified**

Preparation for the Simons Array second telescope

Wednesday, 8 February 2023 09:45 (15 minutes)

Presenter: SAKAGURI, Kana

Session Classification: Parallel Session 4B

Contribution ID: 146

Type: **not specified**

Security emerged from Entanglement

Wednesday, 8 February 2023 10:00 (15 minutes)

Presenter: YAMANO, Shinichiro

Session Classification: Parallel Session 4B

Contribution ID: 147

Type: **not specified**

Imaging the domain wall motion using quantum magnetic sensor

Wednesday, 8 February 2023 10:15 (15 minutes)

Presenter: TSUKAMOTO, Moeta

Session Classification: Parallel Session 4B

Contribution ID: 148

Type: **not specified**

Three-dimensional dynamics of topological "strings" in liquid crystal

Wednesday, 8 February 2023 09:30 (15 minutes)

Presenter: ZUSHI, Yohei

Session Classification: Parallel Session 4C

Contribution ID: 149

Type: **not specified**

Cosmology with weak gravitational lensing

Wednesday, 8 February 2023 09:45 (15 minutes)

Presenter: TANIGUCHI, Takanori

Session Classification: Parallel Session 4C

Contribution ID: 150

Type: **not specified**

Accelerated ion exchange reaction on 2D topological borophane

Wednesday, 8 February 2023 10:00 (15 minutes)

Presenter: ZHANG, Xiaoni

Session Classification: Parallel Session 4C

Contribution ID: 151

Type: **not specified**

Measuring decay properties of neutron-rich isotopes to understand nucleosynthesis

Wednesday, 8 February 2023 10:15 (15 minutes)

Presenter: YEUNG, Tik Tsun

Session Classification: Parallel Session 4C

Contribution ID: 152

Type: **not specified**

Physics in the quasiperiodic systems

Wednesday, 8 February 2023 10:30 (15 minutes)

Presenter: YOSHII, Mao

Session Classification: Parallel Session 4C