

**1st NTHU Physics - NITEP  
kick-off meeting**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **opening : Introduction to NITEP and others**

*Saturday, 27 January 2024 15:00 (20 minutes)*

Hiroshi Itoyama, Director of NITEP, OMU

**Session Classification:** Introductions

Contribution ID: 2

Type: **not specified**

## **Introduction to NTHU**

*Saturday, 27 January 2024 15:40 (20 minutes)*

Pochung Chen, Director of Department of Physics, NTHU

**Session Classification:** Introductions

Contribution ID: 3

Type: **not specified**

## **Introduction to OMU**

*Saturday, 27 January 2024 15:20 (20 minutes)*

Yoshiki Tsunesada, Chairman of Department of Physics, OMU

**Session Classification:** Introductions

Contribution ID: 4

Type: **not specified**

## **Quantum error correction realized by the renormalization group in scalar field theories**

*Saturday, 27 January 2024 16:20 (20 minutes)*

Asato Tsuchiya, Shizuoka U.

**Session Classification:** session 1

Contribution ID: 5

Type: **not specified**

**TBD**

*Saturday, 27 January 2024 16:40 (20 minutes)*

Shin Inouye, NITEP,OMU

**Session Classification:** session 1

Contribution ID: 6

Type: **not specified**

# **Machine-learning enhanced quantum state tomography and its application to the gravitational wave detectors**

*Saturday, 27 January 2024 17:00 (20 minutes)*

Ray Kuang Lee, NTHU

**Session Classification:** session 1

Contribution ID: 7

Type: **not specified**

# Alfvén waves in a homogeneous Beltrami magnetic field

*Saturday, 27 January 2024 17:30 (20 minutes)*

Hideki Ishihara, NITEP,OMU

**Session Classification:** session 2



Contribution ID: 8

Type: **not specified**

## Quantum spacetime and black hole

*Saturday, 27 January 2024 17:50 (20 minutes)*

Chong-Sun Chu, NTHU

**Session Classification:** session 2

Contribution ID: 9

Type: **not specified**

**TBD**

*Saturday, 27 January 2024 18:10 (20 minutes)*

Akira Oguri, NITEP,OMU

**Session Classification:** session 2

Contribution ID: **10**

Type: **not specified**

# **SEE (Sparse Edge Encoder) for natural and medical images**

*Monday, 29 January 2024 09:30 (20 minutes)*

Hsiu Hau Lin, NTHU

**Session Classification:** session 3

Contribution ID: 11

Type: **not specified**

## **Visualization and control of photosynthetic processes**

*Monday, 29 January 2024 09:50 (20 minutes)*

Mitsuru Sugisaki, NITEP,OMU

**Session Classification:** session 3

Contribution ID: 12

Type: **not specified**

## **Optical probing of operation processes in organic semiconductor devices**

*Monday, 29 January 2024 10:10 (20 minutes)*

Katsuichi Kanemoto, NITEP,OMU

**Session Classification:** session 3

Contribution ID: 13

Type: **not specified**

## **Studies on $\pi$ -conjugated radical magnets and attempts of thermal transport measurements for submillimeter crystals**

*Monday, 29 January 2024 11:00 (20 minutes)*

Toshio Ono, NITEP,OMU

**Session Classification:** session 4

Contribution ID: 14

Type: **not specified**

# Quantum Gas Mixture And Trapped Ion Experiments at NTHU

*Monday, 29 January 2024 11:20 (20 minutes)*

Shih-Kuang Tung, NTHU

**Session Classification:** session 4

Contribution ID: 15

Type: **not specified**

# **Ultrafast resonant photon emission from a coherently driven single molecule: Dynamical transition from quantum to classical radiation**

*Monday, 29 January 2024 11:40 (20 minutes)*

Satoshi Tanaka, NITEP,OMU

**Session Classification:** session 4



Contribution ID: 16

Type: **not specified**

# Gravitational wave observation and supporting technologies

*Monday, 29 January 2024 13:00 (20 minutes)*

Nobuyuki Kanda, NITEP,OMU

**Session Classification:** session 5

Contribution ID: 17

Type: **not specified**

## **Astronomy and gravitational wave research in NTHU**

*Monday, 29 January 2024 13:20 (20 minutes)*

Albert Kong, NTHU

**Session Classification:** session 5

Contribution ID: **18**

Type: **not specified**

# **Galaxy mid-infrared number counts and inferred cosmic star-formation history from the James Webb Space Telescope**

*Monday, 29 January 2024 13:40 (20 minutes)*

Tomo Goto, NTHU

**Session Classification:** session 5

Contribution ID: **19**

Type: **not specified**

**TBD**

*Monday, 29 January 2024 14:30 (20 minutes)*

Masako Iwasaki, NITEP,OMU

**Session Classification:** session 6

Contribution ID: **20**

Type: **not specified**

## **Flux Compactification and Naturalness**

*Monday, 29 January 2024 14:50 (20 minutes)*

Nobuhito Maru, NITEP,OMU

**Session Classification:** session 6

Contribution ID: 21

Type: **not specified**

# **Towards a Holographic Interpretation of the Time Evolution of Quantum Entanglement**

*Monday, 29 January 2024 15:10 (20 minutes)*

Shoichi Kawamoto, J.F.Oberlin U.

**Session Classification:** session 6