

# **Workshop on Multi-front Exotic phenomena in Particle and Astrophysics (MEPA 2022)**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Open discussion

Contribution ID: 3

Type: **not specified**

## Open talk

*Saturday, December 17, 2022 8:30 AM (40 minutes)*

Goldstone bosons, dark photons, milicharges and monopoles.

**Presenter:** Prof. HE, Xiaogang

Contribution ID: 6

Type: **not specified**

## Workshop opening

*Saturday, December 17, 2022 8:15 AM (15 minutes)*

Contribution ID: 7

Type: **not specified**

## **Dark Photon & Millicharged Particle Theory Talk 1**

*Saturday, December 17, 2022 10:20 AM (25 minutes)*

**Presenter:** Prof. ZHAO, Yue (Univ. of Utah (US))

**Session Classification:** Dark Photon & Millicharged particle

Contribution ID: 8

Type: **not specified**

## Dark Light

*Saturday, December 17, 2022 10:45 AM (25 minutes)*

**Presenter:** Dr PACHAL, Katherine (Triumf (CA))

**Session Classification:** Dark Photon & Millicharged particle

Contribution ID: 9

Type: **not specified**

## Dark Quest

*Saturday, December 17, 2022 11:10 AM (25 minutes)*

**Presenter:** Dr FENG, Yongbin

**Session Classification:** Dark Photon & Millicharged particle

Contribution ID: **10**

Type: **not specified**

## **LDMX**

*Saturday, December 17, 2022 11:35 AM (25 minutes)*

**Presenter:** Dr SOLT, Matthew (Univ. of Virginia (US))

**Session Classification:** Dark Photon & Millicharged particle

Contribution ID: 11

Type: **not specified**

## **Dark Photon & Millicharged Particle Theory Talk 2**

*Saturday, December 17, 2022 3:45 PM (25 minutes)*

**Presenter:** Prof. WANG, Xiaoping (Beihang University (CN))

**Session Classification:** Dark Photon & Millicharged particle

Contribution ID: 12

Type: **not specified**

## **Dark Photon & Millicharged Particle Theory Talk 3**

*Saturday, December 17, 2022 4:10 PM (25 minutes)*

**Presenter:** Prof. AN, Haipeng (Tsinghua University (CN))

**Session Classification:** Dark Photon & Millicharged particle

Contribution ID: 13

Type: **not specified**

## Dark MESA

*Saturday, December 17, 2022 4:35 PM (25 minutes)*

**Presenter:** Dr DORIA, Luca (Johannes Gutenberg-Universität Mainz (DE))

**Session Classification:** Dark Photon & Millicharged particle

Contribution ID: 14

Type: **not specified**

## NA64

*Saturday, December 17, 2022 5:00 PM (25 minutes)*

**Presenter:** Dr OBERHAUSER, Benjamin Banto (ETH Zürich (CH))

**Session Classification:** Dark Photon & Millicharged particle

Contribution ID: 15

Type: **not specified**

## Dark SHINE

*Saturday, December 17, 2022 5:25 PM (25 minutes)*

**Presenter:** Dr CHEN, Jing (SJTU/TDLI (CN))

**Session Classification:** Dark Photon & Millicharged particle

Contribution ID: 16

Type: **not specified**

## Theory of non-topological soliton

*Sunday, December 18, 2022 2:25 PM (35 minutes)*

**Presenter:** Prof. ZHOU, Shuangyong

**Session Classification:** Magnetic Monopole & Q-Ball

Contribution ID: 17

Type: **not specified**

## FCP search in DAMPE

*Sunday, December 18, 2022 2:00 PM (25 minutes)*

**Presenter:** WEI, Yifeng (University of Science and Technology of China)

**Session Classification:** Magnetic Monopole & Q-Ball

Contribution ID: **18**

Type: **not specified**

## **FCP search in ATLAS**

**Presenter:** WU, Yusheng (University of Science and Technology of China (CN))

**Session Classification:** Magnetic Monopole & Q-Ball

Contribution ID: 19

Type: **not specified**

## **Detection of Topological and Non-Topological Solitons with Gravitational Waves**

*Sunday, December 18, 2022 3:30 PM (30 minutes)*

**Presenter:** GUO, Huaike (University of Utah)

**Session Classification:** Magnetic Monopole & Q-Ball

Contribution ID: 20

Type: **not specified**

## Looking for charged (meta)stable particles in MoEDAL

*Sunday, December 18, 2022 4:00 PM (30 minutes)*

**Presenter:** MITSOU, Vasiliki (IFIC - CSIC and Univ. of Valencia (ES))

**Session Classification:** Magnetic Monopole & Q-Ball

Contribution ID: 21

Type: **not specified**

## **Monopole search project using Magnetometer and plastic scintillator**

**Presenter:** LIN, Qing

**Session Classification:** Magnetic Monopole & Q-Ball

Contribution ID: 22

Type: **not specified**

## **Results and Prospects for Muon g-2 Experiment at Fermilab**

*Sunday, December 18, 2022 9:00 AM (20 minutes)*

**Presenter:** Prof. 李, 亮 (上海交通大学)

**Session Classification:** Other Exotic Particle Search

Contribution ID: 23

Type: **not specified**

## 大亚湾和江门实验新物理研究

*Sunday, December 18, 2022 9:20 AM (20 minutes)*

**Presenter:** Prof. 凌, 家杰 (中山大学)

**Session Classification:** Other Exotic Particle Search

Contribution ID: 24

Type: **not specified**

## Hunting High-Quality Axions

*Saturday, December 17, 2022 9:10 AM (25 minutes)*

**Presenter:** LIU, Zhen

**Session Classification:** Axion

Contribution ID: 25

Type: **not specified**

## **Magnetic mass of the photon**

*Saturday, December 17, 2022 9:35 AM (25 minutes)*

**Presenter:** HUANG, Junwu

**Session Classification:** Axion

Contribution ID: 26

Type: **not specified**

## Hunting Axions with EHT Polarimetry Measurements

*Saturday, December 17, 2022 1:35 PM (25 minutes)*

**Presenter:** CHEN, Yifan (ITP-CAS)

**Session Classification:** Axion

Contribution ID: 27

Type: **not specified**

## Searching for Solar Axions with PandaX Detectors

*Saturday, December 17, 2022 2:00 PM (25 minutes)*

**Presenter:** ZENG, Xinning

**Session Classification:** Axion

Contribution ID: 28

Type: **not specified**

## **Explore the ultralight dark matter by radio telescope**

*Saturday, December 17, 2022 2:25 PM (25 minutes)*

**Presenter:** HUANG, Fapeng

**Session Classification:** Axion

Contribution ID: 29

Type: **not specified**

## **High sensitivity axion dark matter experiments at IBS-CAPP above 1 GHz**

*Saturday, December 17, 2022 2:50 PM (25 minutes)*

**Presenter:** OHJOON, Kwon

**Session Classification:** Axion

Contribution ID: **30**

Type: **not specified**

## **Recent Results from IceCube and Next Generation Neutrino Telescopes**

*Sunday, December 18, 2022 9:40 AM (20 minutes)*

**Presenter:** ZHANG, Fuyudi

**Session Classification:** Other Exotic Particle Search

Contribution ID: 31

Type: **not specified**

## The muEDM experiment at PSI

*Sunday, December 18, 2022 10:45 AM (20 minutes)*

**Presenter:** Prof. KHAW, Kim Siang (TDLI/SJTU)

**Session Classification:** Other Exotic Particle Search

Contribution ID: 32

Type: **not specified**

## **New physics search in e+e- colliders**

*Sunday, December 18, 2022 11:05 AM (25 minutes)*

**Presenter:** ZHANG, Yu

**Session Classification:** Other Exotic Particle Search

Contribution ID: 33

Type: **not specified**

## **Anomaly inspired new physics searches**

*Sunday, December 18, 2022 8:30 AM (30 minutes)*

**Presenter:** Prof. WANG, Liantao (Chicago University)

**Session Classification:** Other Exotic Particle Search

Contribution ID: 34

Type: **not specified**

## **Hadronic system reconstruction at CEPC and searching for NP**

*Sunday, December 18, 2022 11:30 AM (25 minutes)*

**Presenter:** RUAN, Manqi (Institute of High Energy Physics, Beijing, China)

**Session Classification:** Other Exotic Particle Search