

**2nd TDLI Mini-Workshop on
"New Physics at the Tera Scale"
(2019)**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Results and Status of Chinese High altitude Cosmic Ray Experiments

Sunday, 4 August 2019 09:00 (30 minutes)

Presenter: HU, Hongbo

Session Classification: Plenary Session 1

Contribution ID: 2

Type: **not specified**

Some studies on SUSY in light of dark matter and muon $g-2$

Sunday, 4 August 2019 09:30 (30 minutes)

Presenter: YANG, Jin Min (ITP, CAS, Beijing)

Session Classification: Plenary Session 1

Contribution ID: 3

Type: **not specified**

Group Photo

Contribution ID: 4

Type: **not specified**

Who orders dark matter?

Sunday, 4 August 2019 08:30 (30 minutes)

Presenter: YANAGIDA, Tsutomu (TDLI-SJTU)

Session Classification: Plenary Session 1

Contribution ID: 5

Type: **not specified**

Theoretical and observational confrontation of cosmology and gravity, and the new era of multi-messenger astronomy

Sunday, 4 August 2019 13:30 (25 minutes)

Presenter: SARIDAKIS, Emmanuel (National Technical University of Athens & Baylor U.)

Session Classification: Parallel Session 3a (GW & Cosmo)

Contribution ID: 6

Type: **not specified**

Gravitational wave and Collider searches for the EWSB patterns

Sunday, 4 August 2019 13:55 (25 minutes)

Presenter: BIAN, Ligong (Chongqing University)

Session Classification: Parallel Session 3a (GW & Cosmo)

Contribution ID: 7

Type: **not specified**

Gravitational waves induced by non-Gaussian scalar perturbations

Sunday, 4 August 2019 14:20 (25 minutes)

Presenter: PI, Shi (Kavli IPMU)

Session Classification: Parallel Session 3a (GW & Cosmo)

Contribution ID: 8

Type: **not specified**

Probing decoupling in dark sector with cosmic microwave background

Sunday, 4 August 2019 14:45 (25 minutes)

Presenter: CHOI, Gongjun (Tsung-Dao Lee Institute)

Session Classification: Parallel Session 3a (GW & Cosmo)

Contribution ID: 9

Type: **not specified**

Constraints on the Higgs decay width & searches for invisibly decaying Higgs bosons at the LHC

Sunday, 4 August 2019 13:30 (25 minutes)

Presenter: OKAWA, Hideki (Fudan University)

Session Classification: Parallel Session 3b (LHC)

Contribution ID: **10**

Type: **not specified**

New physics searches at ATLAS

Sunday, 4 August 2019 13:55 (25 minutes)

Presenter: LIANG, Zhijun (IHEP)

Session Classification: Parallel Session 3b (LHC)

Contribution ID: 11

Type: **not specified**

Leave No Stone Unturned - Brief Discussion of Less Explored Areas at the LHC

Sunday, 4 August 2019 14:20 (25 minutes)

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

Session Classification: Parallel Session 3b (LHC)

Contribution ID: 12

Type: **not specified**

Recent updates on Higgs coupling measurements at ATLAS

Sunday, 4 August 2019 14:45 (25 minutes)

Presenter: LIU, Kun

Session Classification: Parallel Session 3b (LHC)

Contribution ID: 13

Type: **not specified**

Self-interacting dark matter and the general singlet extension of the MSSM

Sunday, 4 August 2019 15:40 (25 minutes)

Presenter: WANG, Wenyu (Beijing University of Technology)

Session Classification: Parallel Session 4a (Dark Matter)

Contribution ID: 14

Type: **not specified**

Measuring the Spectrum of Freeze-In Dark Matter Model at the LHC

Sunday, 4 August 2019 16:05 (25 minutes)

Presenter: ZHANG, Mengchao (Jinan University)

Session Classification: Parallel Session 4a (Dark Matter)

Contribution ID: 15

Type: **not specified**

Cosmic-ray boosted dark matter and its effect on the electron direct detection

Sunday, 4 August 2019 16:30 (25 minutes)

Presenter: DING, Ran

Session Classification: Parallel Session 4a (Dark Matter)

Contribution ID: 16

Type: **not specified**

Aspects of Boson Stars

Sunday, 4 August 2019 16:55 (25 minutes)

Presenter: SCHIAPPACASSE, Enrico D. (Shanghai Jiao Tong University & Tsung-Dao Lee Institute)

Session Classification: Parallel Session 4a (Dark Matter)

Contribution ID: 17

Type: **not specified**

Positivity bounds on vector boson scattering

Sunday, 4 August 2019 15:40 (25 minutes)

Presenter: ZHANG, Cen (IHEP)

Session Classification: Parallel Session 4b (Pheno)

Contribution ID: **18**

Type: **not specified**

Searches for new low-mass particles at LHCb

Sunday, 4 August 2019 16:05 (25 minutes)

Presenter: YIN, Hang (Central China Normal University CCNU (CN))

Session Classification: Parallel Session 4b (Pheno)

Contribution ID: 19

Type: **not specified**

The B-L solution to muon g-2 puzzle

Sunday, 4 August 2019 16:30 (25 minutes)

Presenter: KANG, Zhaofeng (华中科技大学 (HUST))

Session Classification: Parallel Session 4b (Pheno)

Contribution ID: **20**

Type: **not specified**

SUSY Search at LHC

Sunday, 4 August 2019 16:55 (25 minutes)

Presenter: CHENG, Huajie

Session Classification: Parallel Session 4b (Pheno)

Contribution ID: 21

Type: **not specified**

New Physics from Ultrahigh Energy Cosmic Rays

Monday, 5 August 2019 08:30 (30 minutes)

Presenter: MA, Bo-Qiang (Peking University)

Session Classification: Plenary Session 5

Contribution ID: 22

Type: **not specified**

The SUSY Models

Monday, 5 August 2019 09:00 (30 minutes)

Presenter: LI, Tian-Jun (ITP)

Session Classification: Plenary Session 5

Contribution ID: 23

Type: **not specified**

Hidden-charm molecular pentaquarks

Monday, 5 August 2019 09:30 (30 minutes)

Presenter: LIU, Xiang

Session Classification: Plenary Session 5

Contribution ID: 24

Type: **not specified**

Neutrino mass models based on symmetries

Monday, 5 August 2019 10:30 (25 minutes)

Presenter: DING, Gui-Jun (University of Science and Technology of China)

Session Classification: Parallel Sessions 6a (Neutrino)

Contribution ID: 25

Type: **not specified**

Measuring Leptonic CP Violation using Muon Decay at Rest

Monday, 5 August 2019 10:55 (25 minutes)

Presenter: EVSLIN, Jarah (Institute of Modern Physics, CAS)

Session Classification: Parallel Sessions 6a (Neutrino)

Contribution ID: 26

Type: **not specified**

Status and prospects of mu-tau symmetry

Monday, 5 August 2019 11:20 (25 minutes)

Presenter: NATH, Newton (IHEP, Beijing)

Session Classification: Parallel Sessions 6a (Neutrino)

Contribution ID: 27

Type: **not specified**

PandaX-III: Search for neutrinoless double beta decay of ^{136}Xe at CJPL

Monday, 5 August 2019 11:45 (25 minutes)

Presenter: WANG, Shaobo

Session Classification: Parallel Sessions 6a (Neutrino)

Contribution ID: 28

Type: **not specified**

Signature of 2HDM at Higgs Factories

Monday, 5 August 2019 10:30 (25 minutes)

Presenter: YAN, Qi-Shu (UCAS)

Session Classification: Parallel Sessions 6b (Pheno)

Contribution ID: 29

Type: **not specified**

Top quark pair production

Monday, 5 August 2019 10:55 (25 minutes)

Presenter: YANG, Lilin

Session Classification: Parallel Sessions 6b (Pheno)

Contribution ID: **30**

Type: **not specified**

The Fate of Jet: Its Emergence and Disappearance

Monday, 5 August 2019 11:20 (25 minutes)

Presenter: ZHU, HuaXing (Zhejiang University)

Session Classification: Parallel Sessions 6b (Pheno)

Contribution ID: 31

Type: **not specified**

Probing New Physics Scale via nTGC at $e + e -$ Colliders

Monday, 5 August 2019 11:45 (25 minutes)

Presenter: XIAO, Ruiqing

Session Classification: Parallel Sessions 6b (Pheno)

Contribution ID: 32

Type: **not specified**

The many faces of nonstandard neutrino interactions

Monday, 5 August 2019 13:30 (30 minutes)

Presenter: MARFATIA, Danny

Session Classification: Plenary Session 7

Contribution ID: 33

Type: **not specified**

Detecting ultralight dark matter with high-precision astrometry and timing

Monday, 5 August 2019 14:00 (30 minutes)

Presenter: YUAN, Qiang (Purple Mountain Observatory)

Session Classification: Plenary Session 7

Contribution ID: 34

Type: **not specified**

Status of the PandaX Experiment

Monday, 5 August 2019 14:30 (30 minutes)

Presenter: ZHOU, Ning (Shanghai Jiao Tong University)

Session Classification: Plenary Session 7

Contribution ID: 35

Type: **not specified**

Higgs and Electroweak measurements and their EFT interpretation

Sunday, 4 August 2019 10:30 (30 minutes)

Presenter: HAYS, Chris (Oxford University)

Session Classification: Plenary Session 2

Contribution ID: 36

Type: **not specified**

Status for the CEPC and the physics study towards the TDR

Sunday, 4 August 2019 11:00 (30 minutes)

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

Session Classification: Plenary Session 2

Contribution ID: 37

Type: **not specified**

Searching for particle physics signals via gravitational wave astronomy

Sunday, 4 August 2019 11:30 (30 minutes)

Presenter: CAI, Yi-Fu (University of Science and Technology of China)

Session Classification: Plenary Session 2

Contribution ID: 38

Type: **not specified**

Recent Progress on Scattering Amplitudes

Monday, 5 August 2019 15:00 (30 minutes)

Presenter: HE, Song (ITP-CAS)

Session Classification: Plenary Session 7