

**Composite 2019: The 2019
International Workshop on
Composite Higgs, Dark Matter,
Neutrinos and Related Topics**

Report of Contributions

Contribution ID: 0

Type: **not specified**

How to break electroweak symmetry naturally?

Friday, 22 November 2019 09:00 (20 minutes)

Presenter: Prof. SHU, Jing (ITP)

Session Classification: Plenary session 1

Contribution ID: 1

Type: **not specified**

Dark guleball: The simplest composite dark matter

Friday, 22 November 2019 09:20 (20 minutes)

Presenter: Dr 康, 召丰 (韩国高等研究院 (KIAS))

Session Classification: Plenary session 1

Contribution ID: 2

Type: **not specified**

Neutrino floor in dark matter direct detection

Friday, 22 November 2019 09:40 (20 minutes)

Presenter: 晁, 伟 (Beijing Normal University)

Session Classification: Plenary session 1

Contribution ID: 3

Type: **not specified**

QCD phase structure from Lattice QCD

Friday, 22 November 2019 10:00 (20 minutes)

Presenter: Prof. DING, Heng-Tong (Central China Normal University)

Session Classification: Plenary session 1

Contribution ID: 4

Type: **not specified**

Testing Naturalness

Friday, 22 November 2019 10:40 (20 minutes)

Presenter: Prof. LIU, Tao (The Hong Kong University of Science and Technology)

Session Classification: Plenary session 2

Contribution ID: 5

Type: **not specified**

EFT perspective in composite Higgs and neutral naturalness

Friday, 22 November 2019 11:00 (20 minutes)

Presenter: YU, Jiang-Hao (ITP, CAS)

Session Classification: Plenary session 2

Contribution ID: 6

Type: **not specified**

Welcome address 欢迎致辞

Friday, 22 November 2019 08:30 (30 minutes)

Session Classification: Welcome address 欢迎致辞

Contribution ID: 7

Type: **not specified**

Multi-messengers, dark energy and massive neutrinos

Friday, 22 November 2019 11:20 (20 minutes)

Presenter: 张, 鑫 (Northeastern University)

Session Classification: Plenary session 2

Contribution ID: 8

Type: **not specified**

Probing the Electroweak Sphaleron with Gravitational Waves

Presenter: 边, 立功 (重庆大学)

Contribution ID: 9

Type: **not specified**

Freeze-in Dark Matter and displaced vertices at the LHC

Friday, 22 November 2019 14:00 (20 minutes)

Presenter: CALIBBI, Lorenzo (Nankai University)

Session Classification: Plenary session 3

Contribution ID: 10

Type: **not specified**

Electroweak phase transition in composite Higgs models

Friday, 22 November 2019 14:20 (20 minutes)

Presenter: Dr WU, Yongcheng (Carleton University)

Session Classification: Plenary session 3

Contribution ID: 11

Type: **not specified**

Dark matter in neutrino mass models

Friday, 22 November 2019 14:40 (20 minutes)

Presenter: Dr CAI, Haiying (APCTP)

Session Classification: Plenary session 3

Contribution ID: 12

Type: **not specified**

The phases in Yukawa interactions

Saturday, 23 November 2019 09:40 (20 minutes)

Presenter: ZHANG, 昊 (Institute of High Energy Physics, Chinese Academy of Sciences)

Session Classification: Plenary session 5

Contribution ID: 13

Type: **not specified**

A long-lived stop as a signature of a hidden sector freeze-in dark matter

Friday, 22 November 2019 15:20 (20 minutes)

Presenter: FENG, Wan-Zhe (Tianjin University)

Session Classification: Plenary session 3

Contribution ID: 14

Type: **not specified**

Bounds on cosmic ray boosted dark matter in simplified models

Friday, 22 November 2019 16:00 (20 minutes)

Presenter: Dr WANG, Wenyu (Beijing University of Technology)

Session Classification: Plenary session 4

Contribution ID: 15

Type: **not specified**

SUSY and Higgs Physics at the LHC

Friday, 22 November 2019 16:20 (20 minutes)

Presenter: Dr WU, Lei (Nanjing Normal University)

Session Classification: Plenary session 4

Contribution ID: 16

Type: **not specified**

Axion monodromy and its cosmological trace

Friday, 22 November 2019 16:40 (20 minutes)

Presenter: YANG, Qiaoli (Jinan Univ.)

Session Classification: Plenary session 4

Contribution ID: 17

Type: **not specified**

QCD bound-state effect on dark matter relic abundance

Friday, 22 November 2019 17:00 (20 minutes)

Presenter: Dr LUO, Feng (SYSU)

Session Classification: Plenary session 4

Contribution ID: 18

Type: **not specified**

Pseudo-Nambu-Goldstone dark matter and two-Higgs doublet models

Friday, 22 November 2019 17:20 (20 minutes)

Presenter: 余, 钊焕 (Sun Yat-Sen University)

Session Classification: Plenary session 4

Contribution ID: 19

Type: **not specified**

Dark Matter Bound State Formation through the Emission of the Longitudinal Dark Photon

Friday, 22 November 2019 11:40 (20 minutes)

Presenter: Dr TANG, Yi-Lei (SYSU)

Session Classification: Plenary session 2

Contribution ID: 20

Type: **not specified**

Fundamental Composite Higgs and Phase Structure

Saturday, 23 November 2019 09:00 (20 minutes)

Presenter: Prof. HASHIMOTO, Michio (Chubu U. 日本武藏大学)

Session Classification: Plenary session 5

Contribution ID: 21

Type: **not specified**

New physics search in ATLAS

Saturday, 23 November 2019 09:20 (20 minutes)

Presenter: Prof. LIANG, Zhijun (IHEP)

Session Classification: Plenary session 5

Contribution ID: 22

Type: **not specified**

TBA

Presenter: Mr CAI, Chengfeng (Sun Yat-Sen University)

Contribution ID: 23

Type: **not specified**

Search for new physics with muonium based on the first Chinese accelerator muon source

Presenter: TANG, Jian (Sun Yat-Sen University)

Contribution ID: 24

Type: **not specified**

Phenomenology at the LHC of composite particles from strongly interacting elementary fermions via four-fermion operators of Einstein-Cartan type

Presenter: Prof. XUE, She-Sheng (ICRA, Pescara & Rome U.)

Contribution ID: 25

Type: **not specified**

Testing the Bose-Einstein Condensate dark matter model with galactic rotation curves from the SPARC sample

Friday, 22 November 2019 17:40 (20 minutes)

Presenter: Prof. HARKO, Tiberiu (Babes-Bolyai U.)

Session Classification: Plenary session 4

Contribution ID: 26

Type: **not specified**

A more attractive scheme for radion stabilization and supercooled phase transition

Friday, 22 November 2019 15:00 (20 minutes)

Presenter: Dr NAKAI, Yuichiro (SJTU)

Session Classification: Plenary session 3

Contribution ID: 27

Type: **not specified**

New constraints for sub-MeV dark matter from xenon electron direct detections

Saturday, 23 November 2019 10:40 (20 minutes)

Presenter: 丁, 然 (北京大学高能物理中心)

Session Classification: Parallel session A

Contribution ID: 28

Type: **not specified**

Exotic decay of top partner: current bounds and new search strategy

Presenter: 张, 孟超 (Jinan University)

Contribution ID: 29

Type: **not specified**

g-2_mu versus flavor changing neutral current induced by the light B-L_{mu-tau} boson

Saturday, 23 November 2019 11:00 (20 minutes)

Presenter: Dr SHIGEKAMI, Yoshihiro (HUST)

Session Classification: Parallel session A

Contribution ID: 30

Type: **not specified**

Scale and gravitational wave-gensis by Dark Matter

Saturday, 23 November 2019 11:40 (20 minutes)

Presenter: Mr ZHU, Jiang (HUST)

Session Classification: Parallel session A

Contribution ID: 31

Type: **not specified**

Multi-Higgs production via vector boson fusion at hadron colliders

Saturday, 23 November 2019 11:20 (20 minutes)

Presenter: Dr 赵志杰

Session Classification: Parallel session A

Contribution ID: 32

Type: **not specified**

The KATRIN neutrino mass experiment

Saturday, 23 November 2019 10:20 (20 minutes)

Presenter: Dr SUN, Menglei (Washington U.)

Session Classification: Parallel session B

Contribution ID: 33

Type: **not specified**

Gravitational Higgs mechanism in inspiring neutron star binaries

Saturday, 23 November 2019 10:40 (20 minutes)

Presenter: Prof. WANG, Jing (GXNU)

Session Classification: Parallel session B

Contribution ID: **34**

Type: **not specified**

FAKE GUT

Saturday, 23 November 2019 11:00 (20 minutes)

Presenter: Dr SUZUKI, Motoo (SJTU)

Session Classification: Parallel session B

Contribution ID: 35

Type: **not specified**

Perturbation problem and adaptive method

Saturday, 23 November 2019 11:20 (20 minutes)

Presenter: MA, Chen-Te (SCNU; UCT)

Session Classification: Parallel session B

Contribution ID: 36

Type: **not specified**

Minimal unified field theory from square root metric, fibre bundle theory and Sheaf theory

Saturday, 23 November 2019 11:40 (20 minutes)

Presenter: Dr LI, De-Sheng (Jishou U.)

Session Classification: Parallel session B

Contribution ID: 37

Type: **not specified**

Underlying conformally extended standard models

Saturday, 23 November 2019 10:20 (20 minutes)

Presenter: Prof. MATSUZAKI, Shinya (Jilin U.)

Session Classification: Parallel session A