

# **6th PIKIO Meeting**

## **Report of Contributions**

Contribution ID: 2

Type: **not specified**

## Naturalness

*Saturday, 6 October 2018 11:30 (1 hour)*

**Presenter:** Dr COHEN, Timothy (University of Oregon)

**Session Classification:** Morning

Contribution ID: 3

Type: **not specified**

# **Unveiling the Nambu-Goldstone Nature of the Higgs boson by precision measurements**

*Saturday, 6 October 2018 09:15 (15 minutes)*

**Presenter:** Dr LIU, Da (ANL)

**Session Classification:** Morning

Contribution ID: 4

Type: **not specified**

## **Leak-in Dark Matter**

*Saturday, 6 October 2018 09:00 (15 minutes)*

**Presenter:** Dr EVANS, Jared (University of Cincinnati)

**Session Classification:** Morning

Contribution ID: 5

Type: **not specified**

## **Boosted Dark Matter Searches at Surface and Underground Neutrino Experiments**

*Saturday, 6 October 2018 09:30 (15 minutes)*

**Presenter:** Dr SHIN, Seodong (University of Chicago / Yonsei U.)

**Session Classification:** Morning

Contribution ID: 6

Type: **not specified**

## **Dark Quark Nuggets**

*Saturday, 6 October 2018 09:45 (15 minutes)*

**Presenter:** Dr LONG, Andrew (University of Michigan - LCTP)

**Session Classification:** Morning

Contribution ID: 7

Type: **not specified**

## **A light complex scalar for electron and muon anomalous magnetic moment**

*Saturday, 6 October 2018 10:00 (15 minutes)*

**Presenter:** Dr WANG, Xiaoping (Argonne)

**Session Classification:** Morning

Contribution ID: 8

Type: **not specified**

## **Novel Signatures of Dark Matter Clusters in Direct Detection Experiments**

*Saturday, 6 October 2018 10:15 (15 minutes)*

**Presenter:** Dr ZHANG, Yongchao (Washington University in St. Louis)

**Session Classification:** Morning



Contribution ID: 9

Type: **not specified**

# The Infrared Structure of Scalar Effective Field Theories

*Saturday, 6 October 2018 11:00 (15 minutes)*

**Presenter:** Dr YIN, Zhewei (Northwestern University)

**Session Classification:** Morning

Contribution ID: 10

Type: **not specified**

## **Atmospheric neutrino backgrounds and the DSNB in Super-Kamiokande**

*Saturday, 6 October 2018 11:15 (15 minutes)*

**Presenter:** Dr ZHOU, Bei (CCAPP, The Ohio State University)

**Session Classification:** Morning

Contribution ID: 11

Type: **not specified**

## **Relic Density of Scalar Dark Matter via an RS Graviton Portal**

*Saturday, 6 October 2018 14:30 (15 minutes)*

**Presenter:** Dr FOREN, Dennis (Michigan State University)

**Session Classification:** Afternoon

Contribution ID: 12

Type: **not specified**

## **An R-parity Violating Supersymmetric Explanation of the EeV Events at ANITA**

*Saturday, 6 October 2018 14:45 (15 minutes)*

**Presenter:** Dr SUI, Yicong (Washington University in St. Louis)

**Session Classification:** Afternoon

Contribution ID: 13

Type: **not specified**

## **Phenomenological Consequences of Producing Fermions During Inflation**

*Saturday, 6 October 2018 15:00 (15 minutes)*

**Presenter:** Dr PEARCE, Lauren (UIUC)

**Session Classification:** Afternoon

Contribution ID: 14

Type: **not specified**

## **Determining the Majorana nature of neutrino through patterns of nucleon-antinucleon oscillation and conversion processes**

*Saturday, 6 October 2018 15:15 (15 minutes)*

**Presenter:** Dr YAN, Xinshuai (University of Kentucky)

**Session Classification:** Afternoon

Contribution ID: 15

Type: **not specified**

## **Enhancing Long-lived particles searches at the LHC with precision timing information**

*Saturday, 6 October 2018 15:30 (15 minutes)*

**Presenter:** Dr LIU, Jia (University of Chicago)

**Session Classification:** Afternoon

Contribution ID: 16

Type: **not specified**

## **Fitting $\mu$ and B physics anomalies by adding $U(1)'$ and Vector-like 4th family to the Standard Model**

*Saturday, 6 October 2018 15:45 (15 minutes)*

**Presenter:** Dr RABY, Stuart (The Ohio State University)

**Session Classification:** Afternoon



Contribution ID: 17

Type: **not specified**

## **Top-bottom-tau Yukawa unification in the MSSM with a vector-like family**

*Saturday, 6 October 2018 16:30 (15 minutes)*

**Presenter:** Dr MCGINNIS, Navin (Indiana University)

**Session Classification:** Afternoon

Contribution ID: **18**

Type: **not specified**

## **Understanding recent collider excesses in light of light Higgs bosons**

*Saturday, 6 October 2018 16:45 (15 minutes)*

**Presenter:** Dr JOHNSON, Evan (Ohio State University)

**Session Classification:** Afternoon

Contribution ID: 19

Type: **not specified**

## **Improving limits on a simplified model of dark matter**

*Saturday, 6 October 2018 17:00 (15 minutes)*

**Presenter:** Dr MOHAN, Kirtimaan (Michigan State University)

**Session Classification:** Afternoon

Contribution ID: 20

Type: **not specified**

## **Light (and darkness) from a light hidden Higgs**

*Saturday, 6 October 2018 17:15 (15 minutes)*

**Presenter:** Dr XIE, Keping (Southern Methodist University)

**Session Classification:** Afternoon

Contribution ID: 21

Type: **not specified**

## **Perturbative limits in the U(1) and the left-right models and implications for searches of heavy gauge bosons**

*Saturday, 6 October 2018 17:30 (15 minutes)*

**Presenter:** Dr CHAUHAN, Garv (Washington University in St. Louis)

**Session Classification:** Afternoon

Contribution ID: 22

Type: **not specified**

## **Clockworking FIMPs**

*Saturday, 6 October 2018 17:45 (15 minutes)*

**Presenter:** Dr SENGUPTA, Dipan (Michigan State University)

**Session Classification:** Afternoon