

# **New Opportunities at the Next Generation Neutrino Experiments**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Opening of the workshop and Welcome

*Friday, April 12, 2019 9:00 AM (10 minutes)*

**Presenter:** YU, Jae (University of Texas at Arlington (US))

**Session Classification:** Session 1

Contribution ID: 2

Type: **not specified**

## **Theoretical Landscape of Dark Matter Models to probe in Neutrino Experiments (30+15)**

*Friday, April 12, 2019 9:55 AM (45 minutes)*

**Presenter:** Prof. CUI, Yanou (University of California, Riverside)

**Session Classification:** Session 1

Contribution ID: 3

Type: **not specified**

## **Theoretical Landscape of Neutrino BSM (30+15)**

*Friday, April 12, 2019 9:10 AM (45 minutes)*

**Presenter:** SHOEMAKER, Ian

**Session Classification:** Session 1

Contribution ID: 4

Type: **not specified**

## **BSM Searches with LAr Detectors (30+15)**

*Friday, April 12, 2019 11:00 AM (45 minutes)*

**Presenter:** TSAI, Yun-Tse (SLAC)

**Session Classification:** Session 2

Contribution ID: 5

Type: **not specified**

## **BSM Searches with Cherenkov Detectors (30+15)**

*Friday, April 12, 2019 11:45 AM (45 minutes)*

**Presenter:** THOMAS, Jenny (University of London (GB))

**Session Classification:** Session 2

Contribution ID: 6

Type: **not specified**

## **BSM Searches with Near Detectors (30+10)**

*Friday, April 12, 2019 2:00 PM (40 minutes)*

**Presenter:** MACHADO, Pedro (Fermilab)

**Session Classification:** Session 3

Contribution ID: 7

Type: **not specified**

## **Generators Overview (30+10)**

*Friday, April 12, 2019 2:40 PM (40 minutes)*

**Presenter:** BERGER, Joshua (University of Pittsburgh)

**Session Classification:** Session 3



Contribution ID: 8

Type: **not specified**

## **Systematic Uncertainty Integration and BSM (30+10)**

*Friday, April 12, 2019 3:20 PM (40 minutes)*

**Presenter:** BISHAI, Mary (Brookhaven National Laboratory (US))

**Session Classification:** Session 3

Contribution ID: 9

Type: **not specified**

## **Double Bang at IceCube (20+10)**

**Session Classification:** Session 3

Contribution ID: **10**

Type: **not specified**

## **BSM Searches with COHERENT**

*Saturday, April 13, 2019 9:00 AM (30 minutes)*

**Presenter:** SINEV, Gleb (DUNE University)

**Session Classification:** Session 5

Contribution ID: **11**

Type: **not specified**

## **BSM Physics with Beam Dump Experiments**

*Saturday, April 13, 2019 9:30 AM (30 minutes)*

**Presenters:** DE ROECK, Albert (CERN); DE ROECK, Albert (CERN)

**Session Classification:** Session 5

Contribution ID: 12

Type: **not specified**

## Machine Learning and BSM Searches

*Saturday, April 13, 2019 10:00 AM (30 minutes)*

**Presenters:** AURISANO, Adam (University of Cincinnati); AURISANO, Adam Jude (University of Cincinnati (US))

**Session Classification:** Session 5

Contribution ID: 13

Type: **not specified**

## White Paper Structure (15+15)

*Saturday, April 13, 2019 11:00 AM (30 minutes)*

**Presenters:** SOUSA, Alexandre (University of Cincinnati); DE GOUVEA, Andre (Northwestern University); YU, Jae (University of Texas at Arlington (US))

**Session Classification:** Session 6

Contribution ID: 14

Type: **not specified**

## **White Paper Planning and Writing Assignments**

*Saturday, April 13, 2019 11:30 AM (50 minutes)*

**Presenter:** ALL PARTICIPANTS

**Session Classification:** Session 6

Contribution ID: 15

Type: **not specified**

## Closeout

**Presenter:** YU, Jae (University of Texas at Arlington (US))

**Session Classification:** Session 6



Contribution ID: 16

Type: **not specified**

## **Optimization of Boosted Dark Matter Searches (25+10)**

*Friday, April 12, 2019 4:30 PM (35 minutes)*

**Presenter:** KIM, Doojin (University of Florida)

**Session Classification:** Session 4

Contribution ID: 17

Type: **not specified**

## **Millicharged Particles in Neutrino Experiments and FerMINI (15+5)**

*Friday, April 12, 2019 5:55 PM (20 minutes)*

**Presenter:** Dr TSAI, Yu-Dai (Fermilab)

**Session Classification:** Session 4

Contribution ID: **18**

Type: **not specified**

## **Search for BSM at MINER & Other Reactor Neutrino Experiments (20+5)**

*Friday, April 12, 2019 5:05 PM (25 minutes)*

**Presenter:** KUBIK, Andrew Michael (Texas A&M University (US))

**Session Classification:** Session 4

Contribution ID: 19

Type: **not specified**

## **BSM Search Results and Prospects at MINOS and NOvA**

*Friday, April 12, 2019 5:30 PM (25 minutes)*

**Presenter:** TODD, Jacob (University of Cincinnati (US))

**Session Classification:** Session 4

Contribution ID: 20

Type: **not specified**

## **Continued White Paper Writing & closing**

*Saturday, April 13, 2019 2:00 PM (2 hours)*

**Presenters:** ALL WILLING PARTICIPANTS; YU, Jae (University of Texas at Arlington (US))

**Session Classification:** Session 7

Contribution ID: 21

Type: **not specified**

## Closing

**Session Classification:** Session 7

Contribution ID: 22

Type: **not specified**

## Closeout

**Presenter:** YU, Jae (University of Texas at Arlington (US))

**Session Classification:** Session 7