

# **QuarkNet Workshop for High School Teachers**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Fundamental of particle physics

*Monday, 1 July 2019 09:00 (50 minutes)*

**Presenter:** Dr MOHLABENG, Gopolang (Brookhaven National Laboratory)

Contribution ID: 2

Type: **not specified**

## Open questions in particle physics

*Monday, 1 July 2019 10:00 (50 minutes)*

**Presenter:** MOHLABENG, Gopolang (Brookhaven National Laboratory)

Contribution ID: 3

Type: **not specified**

# Neutrino Physics I

*Monday, 1 July 2019 13:00 (50 minutes)*

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

Contribution ID: 4

Type: **not specified**

## Neutrino Physics II

*Monday, 1 July 2019 14:00 (50 minutes)*

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

Contribution ID: 5

Type: **not specified**

# Astroparticle Physics and Cosmology I

*Monday, 1 July 2019 11:00 (50 minutes)*

**Presenter:** STANKUS, Paul (Oak Ridge National Lab)

Contribution ID: 6

Type: **not specified**

## Searches of Dark Matter signals with the ATLAS detector at the LHC: Present and future

*Monday, 1 July 2019 15:00 (1 hour)*

Particle Physics Seminar in Building 510

ABSTRACT:

In this seminar, I will present an overview of up-to-date results on searches for Dark Matter signals with the ATLAS detector at the LHC using Run 2 data. Comparison with non-accelerator DM results as well as interpretation within some theoretical models will be discussed. In addition, expectation from the high-luminosity LHC (HL-LHC) DM searches program will be briefly presented. Finally, I will talk about the new ATLAS High Granularity Timing Detector (HGTD), planned for the phase 2 upgrade program for the HL-LHC run, and its performances for physics studies.

**Presenter:** Dr MAZINI, Rachid (Academia Sinica)

Contribution ID: 7

Type: **not specified**

# Raspberry Pi Experiments & Demonstrations I

*Tuesday, 2 July 2019 09:00 (3 hours)*

**Presenter:** Dr BIERSACH, David (BNL)

Contribution ID: 8

Type: **not specified**

## **Raspberry Pi Experiments & Demonstrations II**

*Tuesday, 2 July 2019 13:00 (3 hours)*

**Presenter:** Dr BIERSACH, David (BNL)

Contribution ID: 9

Type: **not specified**

## **Detector basics and technologies**

*Wednesday, 3 July 2019 09:00 (50 minutes)*

**Presenter:** DIWAN, Milind (BNL)

Contribution ID: 10

Type: **not specified**

**MINERvA Masterclass (use momentum and  
uncertainty principle to analyze  $\nu + n \rightarrow \mu + p$   
events in NuMI beam)**

*Wednesday, 3 July 2019 10:00 (50 minutes)*

**Presenter:** Dr CECIRE, Kenneth (University of Notre Dame)

Contribution ID: 11

Type: **not specified**

**MINERvA Masterclass (use momentum and  
uncertainty principle to analyze  $\nu + n \rightarrow \mu + p$   
events in NuMI beam)**

*Wednesday, 3 July 2019 11:00 (50 minutes)*

**Presenter:** Dr CECIRE, Kenneth (University of Notre Dame)

Contribution ID: 12

Type: **not specified**

## Astroparticle Physics & Cosmology II

*Wednesday, 3 July 2019 13:00 (50 minutes)*

Possibly, a visit to the BMX Radio Telescope

**Presenter:** STANKUS, Paul (Oak Ridge National Lab)

Contribution ID: 13

Type: **not specified**

## **Tour of NSLS-II**

*Wednesday, 3 July 2019 14:00 (2 hours)*

**Presenter:** BRONSON, Scott (BNL)