

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 BIRSACH, David (BNL)

Contribution ID: 8

Type: **not specified**

Raspberry Pi Experiments & Demonstrations II

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

Presenter: Dr BIRSACH, 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)