

BNL organized LHC masterclasses in April 2019. We met on April 8, 3:00-6:00pm in room 135 at Smithtown High School East, 10 School Street, Saint James. Before that, teachers and students had a short review of what the students had learned since the week before, and then they analyzed the data on April 11:

April 11 - 8:30am - 1:00pm at BNL, Education Building

Ketevi to arrange for access to BNL - event "open to the public"?

Ketevi to reserve the auditorium and the sitting room/break room outside the auditorium for 8:00-1:00

8:30 - arrival + bagels (**Gillian**)

9:00 - Discussion about results (Dmitri/Ketevi/all)

Video conference with CERN at 10:00 (6 hours difference, 4pm in Switzerland)

11:15 - tour of NSLSII or invited speaker (**Ketevi** to arrange)

Lunch (19 students + 5 teachers + Ketevi, Dmitri, anybody else; **Ketevi** to arrange)

1:00 leave on buses

13:00 → 16:00 **Raspberry Pi Experiments & Demonstrations II** ⌚ 3h


Speaker: Dr David Biersach (BNL)

WEDNESDAY, 3 JULY

09:00 → 09:50 **Detector basics and technologies** ⌚ 50m

Speaker: Milind Diwan (BNL)

 detectors-basics.key

 detectors-basics.pdf

10:00 → 10:50 **MINERvA Masterclass (use momentum and uncertainty principle to analyze $\nu + n \rightarrow \mu + p$ events in NuMI beam)** ⌚ 50m

Speaker: Dr Kenneth Cecire (University of Notre Dame)

 MINERvA Mastercla...

11:00 → 11:50 **MINERvA Masterclass (use momentum and uncertainty principle to analyze $\nu + n \rightarrow \mu + p$ events in NuMI beam)** ⌚ 50m

Speaker: Dr Kenneth Cecire (University of Notre Dame)

 MINERvA Mastercla...

12:00 → 13:00 **Lunch** ⌚ 1h

13:00 → 13:50 **Astroparticle Physics & Cosmology II** ⌚ 50m

Possibly, a visit to the BMX Radio Telescope

Speaker: Paul Stankus (Oak Ridge National Lab)

14:00 → 16:00 **Tour of NSLS-II** ⌚ 2h

Speaker: Scott Bronson (BNL)

QuarkNet Workshop for High School Teachers

1 Jul 2019, 08:30 → 3 Jul 2019, 16:00 US/Eastern

Building 438

Ketevi Adikle Assamagan (BNL)

MONDAY, 1 JULY

09:00	→ 09:50	Fundamental of particle physics ⌚ 50m
		Speaker: Dr Gopolang Mohlabeng (Brookhaven National Laboratory)
10:00	→ 10:50	Open questions in particle physics ⌚ 50m
		Speaker: Gopolang Mohlabeng (Brookhaven National Laboratory)
11:00	→ 11:50	Astroparticle Physics and Cosmology I ⌚ 50m
		Speaker: Paul Stankus (Oak Ridge National Lab)
12:00	→ 13:00	Lunch ⌚ 1h
13:00	→ 13:50	Neutrino Physics I ⌚ 50m
		Speaker: Mary Bishai (Brookhaven National Laboratory)
14:00	→ 14:50	Neutrino Physics II ⌚ 50m
		Speaker: Mary Bishai (Brookhaven National Laboratory)
15:00	→ 16:00	Searches of Dark Matter signals with the ATLAS detector at the LHC: Present and future ⌚ 1h
		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.
		Speaker: Dr Rachid Mazini (Academia Sinica)

TUESDAY, 2 JULY

09:00	→ 12:00	Raspberry Pi Experiments & Demonstrations I ⌚ 3h
		Speaker: Dr David Biersach (BNL)
12:00	→ 13:00	Lunch ⌚ 1h

Minutes