

Physics Department Summer Lectures 2022

Report of Contributions

Contribution ID: 1

Type: **not specified**

The Standard Model and Beyond (Block 1)

Tuesday, June 14, 2022 1:00 PM (1h 15m)

Hosted by: Milind Diwan

Presenter: DAVOUDIASL, Hooman (Brookhaven National Laboratory)

Contribution ID: 2

Type: **not specified**

Introduction to Neutrino Physics (Block 1)

Friday, June 17, 2022 1:00 PM (1h 15m)

Hosted by: Peter Petreczky

Presenter: DENTON, Peter

Contribution ID: 3

Type: **not specified**

The muon particle and its g-2 value (Block 2)

Tuesday, June 21, 2022 1:00 PM (1h 15m)

Hosted by: Wlodek Guryń

Presenter: MORSE, Bill (BNL)

Contribution ID: 4

Type: **not specified**

Search for Higgs boson decay to invisible particles and interpretation for dark matter, with the ATLAS detector(Block 2)

Friday, June 24, 2022 1:00 PM (1h 15m)

Hosted by: Peter Petreczky

Abstract: I will introduce what is meant by “invisible” particles and how we can detect them even though they are “invisible”. Then, I will introduce dark matter and discuss why certain types of invisible particles might be candidates for dark matter. Finally, I will present a search for invisible particles in the decays of the Higgs boson and discuss its interpretation for dark matter search.

Presenter: ASSAMAGAN, Ketevi Adikle (BNL)

Contribution ID: 5

Type: **not specified**

The g-2 experiment at Fermilab

Tuesday, June 28, 2022 1:00 PM (1h 15m)

Hosted by: Wlodek Guryń

Presenter: TISHCHENKO, Vladimir (BNL)

Contribution ID: 6

Type: **not specified**

QCD RHIC (Blocks 3)

Friday, July 1, 2022 1:00 PM (1h 15m)

Hosted by: Milind Diwan

Presenter: PISARSKI, Rob (Brookhaven National Laboratory)

Contribution ID: 7

Type: **not specified**

Introduction to QCD and High Energy Spin Physics(Block 3)

Tuesday, July 5, 2022 1:00 PM (1h 15m)

Hosted by: Aihong Tang

Presenter: HATTA, Yoshitaka (BNL)

Contribution ID: 8

Type: **not specified**

The journey to seek symmetry in Quark-Gluon Plasma(Block 6)

Friday, July 8, 2022 1:00 PM (1h 15m)

Hosted by: Aihong Tang

Presenter: RUAN, Lijuan (Brookhaven National Laboratory)

Contribution ID: 9

Type: **not specified**

EIC (block 3)

Contribution ID: **10**

Type: **not specified**

Introductory to Cosmology (Block 4)

Friday, July 15, 2022 1:00 PM (1h 15m)

Hosted by: Peter Petreczky

Presenter: MIRANDA , Vivian (SBU)

Contribution ID: **11**

Type: **not specified**

Quantum Computing

Tuesday, August 9, 2022 1:00 PM (1h 15m)

Hosted by: Wlodek Gryn

Presenter: BARATA, Joao (BNL)

Contribution ID: 12

Type: **not specified**

Silicon Detector Systems (Block 5)

Friday, July 22, 2022 1:00 PM (1h 15m)

Hosted by: Peter Petreczky

Presenter: LYNN, David (BNL)

Contribution ID: 13

Type: **not specified**

From RF to Optics (Block 5)

Tuesday, July 26, 2022 1:00 PM (1h 15m)

Hosted by: Peter Petreczky

Presenter: HAUPT, Justine

Contribution ID: 14

Type: **not specified**

Introduction to Instrumentation (Block 5)

Friday, July 29, 2022 1:00 PM (1h 15m)

Hosted by: Aihong Tang

Presenter: WORCESTER, Matthew (BNL)

Contribution ID: 15

Type: **not specified**

Introduction to Accelerator Physics (Block 3)

Tuesday, August 2, 2022 1:00 PM (1h 15m)

Hosted by Wlodek Guryn

Presenter: VERDÚ-ANDRÉS, Silvia (Brookhaven National Laboratory (BNL))

Contribution ID: 16

Type: **not specified**

The electron-ion collider: A collider to unravel the mysteries of visible matter

Friday, August 5, 2022 1:00 PM (1h 15m)

Hosted by: Milind Diwan

Presenter: Dr ASCHENAUER, E. C. (BNL)