Session Program

5 June 2023 to 11 August 2023

USCMS Undergraduate Summer Internship 2023

Afternoon Session

USCMS, Virtual

Monday 5 June

14:00

Afternoon Session: Overview of CMS and meet with Mentors
Session | **Location:** WH11NW (Pileup Room)

14:10–15:10 **Physics Overview**

Speaker
Tulika Bose

15:10–16:10 **CMS Detector - a discovery tool**

Speaker
Steve Nahn

16:10–17:10 **Computing and Software for Physics**

Speaker
Andrew Malone Melo

18:10

Tuesday 6 June

14:00

Afternoon Session: Training Days
Session | **Location:** WH11NW (Pileup Room)

14:00–15:00 **USCMS Talk - Higgs**

Speaker
Chris Palmer

15:00–17:00 **Unix Exercises**

Speaker
Marco Mambelli

17:00

Wednesday 7 June

13:00

Afternoon Session
Session | **Location:** WH11NW (Pileup Room)

13:00–16:00 **Python II**

Speaker
Bruno Moreira Coimbra

16:00–17:00 **USCMS Talk - The Standard Model**

Speaker
Titas Roy

17:00

Thursday 8 June

14:15

Afternoon Session
Session | **Location:** WH11NW (Pileup Room)

14:15–16:00 **Git Exercises**

Speaker
Marco Mambelli

16:00–17:00 **USCMS Talk - Muons**

Speaker
Prof. Kevin Black

17:00

Friday 9 June

13:00

Afternoon Session: Afternoon
Session | **Location:** WH11NW (Pileup Room)

13:00–16:00 **Python for HEP (Matplotlib and other tools)**

Speakers
Bruno Moreira Coimbra, SHIVANI LOMTE

Location
WH11NW (Pileup Room)

16:00–17:00 **USCMS Talk - How to do Particle Physics in a Climate Emergency?**

Speaker
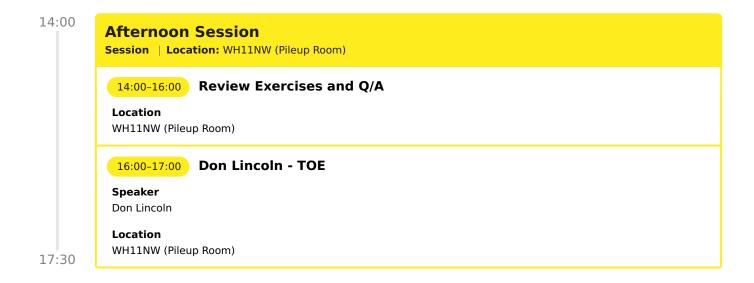Kenneth Bloom

18:00

Monday 12 June

13:00

Afternoon Session
Session | **Location:** WH11NW (Pileup Room)

13:00–14:00   **PyROOT and RDataFrame Exercises**

Speaker
Guillermo Antonio Fidalgo Rodriguez

14:00–16:00   **Searching ni shell and collaborating with Git**

Speaker
Marco Mambelli

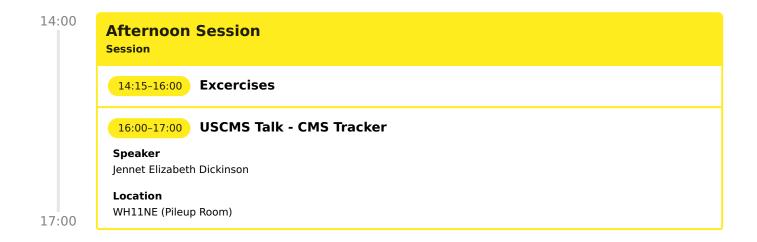16:00–17:00   **USCMS Talk - Supersymmetry**

Speaker
Nadja Strobbe

19:00

Tuesday 13 June

14:00

Afternoon Session
Session | **Location:** WH11NW (Pileup Room)

14:00–16:00 **Review Exercises and Q/A**

Location
WH11NW (Pileup Room)

16:00–17:00 **Don Lincoln - TOE**

Speaker
Don Lincoln

Location
WH11NW (Pileup Room)

17:30

Wednesday 14 June

13:00

Afternoon Session
Session

13:00–14:15 **Sidet Tour - Jennet Dickinson**

Location
Sidet Facility

14:15–16:30 **Machine Learning Exercises**

Speaker
Nikolas Pervan

Location
WH11NW (Pileup Room)

16:30–17:00 **USCMS Talk - PURSUE Alumni (Xinyue Wu - Rochester)**

Speaker
Xinyue Wu

Location
WH11NW (Pileup Room)

18:00

Thursday 15 June

14:00

Afternoon Session
Session

14:15–16:00 **Excercises**

16:00–17:00 **USCMS Talk - CMS Tracker**

Speaker
Jennet Elizabeth Dickinson

Location
WH11NE (Pileup Room)

17:00

Friday 16 June

13:00

Afternoon Session
Session | **Location:** WH11NW (Pileup Room)

13:00–16:00 **Coding Dojo Exercise**

Location
WH11NW (Pileup Room)

16:00–17:00 **USCMS Talk - Muon Colliders**

Speaker
Sergo Jindariani

Location
WH11NW (Pileup Room)

17:00