# Welcome!



### Walter Giele, Nhan Tran, Fermilab

https://indico.fnal.gov/e/hcpss2022

### Program

#### LHC Lectures

- Perturbative QCD and Jet Physics Ian Moult, Yale University
- Higgs Theory Bernhard Mistlberger, SLAC
- Electroweak Theory Radja Boughezal, Northwestern/Argonne
- BSM Theory Bogdan Dobrescu, FNAL
- Flavor Physics Theory, Wolfgang Altmannshofer, UCSC
- BSM Experimental Searches Zeynep Demaragli, Boston University
- Higgs and Standard Model Measurements Aram Apyan, Brandeis University
- Flavor Physics Experiment Matt Rudolph, Syracuse University
- High-density QCD with Proton and Ion Beams Marta Verweij, Utrecht University
- Reconstruction & ML techniques Lindsey Gray, FNAL
- Statistics Nicholas Wardle, Imperial College London
- Tracking detectors Doug Berry, FNAL
- Calorimetry Ted Kolberg, Florida State University
- Timing detectors Artur Apresyan, FNAL
- Trigger and DAQ Sergo Jindariani, FNAL
- Computing Oliver Gutsche, FNAL
- Accelerator Technologies Jeff Eldred, FNAL

#### **Special Topics**

- Snowmass Joel Butler
- Quantum Information Science Gabriel Perdue
- Neutrinos Noemi Rocco

## Local organizers

- John Campbell (Fermilab)
- Jennet Dickinson (Fermilab)
- Walter Giele, co-chair (Fermilab)
- Florian Herren (Fermilab)
- Walter Hopkins (Argonne)
- Cristian Pena (Fermilab)
- Nhan Tran, co-chair (Fermilab)
- Yongbin Feng (Fermilab)
- Aidan Grummer (Fermilab)

Reach out to any of us if you have questions!

## <u>Schedule</u>

Time (US central)	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23	8/24	8/25	8/26
900a	QCD	QCD	Higgs (T)	Higgs (T)	Computing	Weekend	Weekend	Stats	Stats	BSM (T)	BSM (T)	HI (E)
930a	Moult	Moult	Mistlberger	Mistlberger	Gutsche			Wardle	Wardle	Dobrescu	Dobrescu	Verweij
1000a												
1030a	Calorimetry	Calorimetry	Higgs/EW (E)	Higgs/EW (E)	Neutrinos			Reco+ML	Reco+ML	BSM (E)	BSM (E)	Snowmass
1100a	Kolberg	Kolberg	Apyan	Apyan	Rocco			Gray	Gray	Demiragli	Demiragli	Butler
1130a			51.53									
1200p	Lunch/Dinner											
1230p	Lunch/Dinner											
100p	Trackers	Flavor (T)	Timing	Flavor (E)	QIS			Reco+ML	EWK (T)	TDAQ	TDAQ	Accelerators
130p	Berry	Altmannshofer	Apresyan	Rudolph	Perdue			Gray	Boughezal	Jindariani	Jindariani	TBD
200p												
230p	Welcome	Discussion	Discussion	Discussion	Discussion			Discussion	Discussion	Discussion	Discussion	Discussion
300p	Discussion											



https://fnal.zoom.us/j/96960497034?pwd=Mkd5VStqNnlKSUhyV2xnRDZvbTNPUT09&from=addon

Or use:

### Meeting ID: 969 6049 7034 Passcode: 719461

### How to interact and discussion sessions

Unfortunately, we are not able to see each other in person, but we do want you to be able to **interact with the lecturers and each other as much as possible** 

**During lectures**: Raise hand if you have a question. If the lecturer doesn't see it, one of the coordinators or local organizing committee can help

**During & after lectures**: Put questions in designated <u>google docs</u> – we will go through them during the **discussion sessions** and other key points from the lectures of the day.