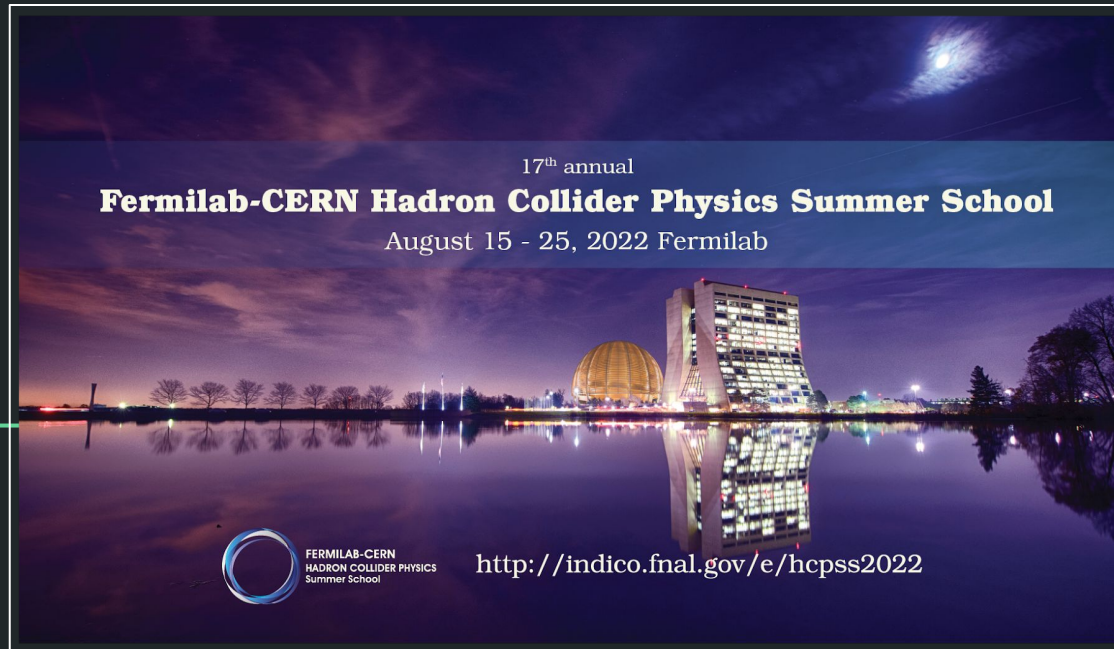


Welcome!



Walter Giele, Nhan Tran, Fermilab

<https://indico.fnal.gov/e/hcps2022>

Program

LHC Lectures

- **Perturbative QCD and Jet Physics - Ian Mould, 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!

Zoom

<https://fnal.zoom.us/j/96960497034?pwd=Mkd5VStqNnlKSUhyV2xnRDZvbTNPOT09&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 [google docs](#) – we will go through them during the **discussion sessions** and other key points from the lectures of the day.