

# 2017 CTEQ School

The Coordinated Theoretical-Experimental Project on QCD (CTEQ)  
will organize and conduct the

## 2017 CTEQ School

on

## QCD and Electroweak Phenomenology

at the

University of Pittsburgh, PA, USA

18 – 28 July 2017

The school will be locally hosted by **PITT PACC**, and the Monte Carlo Tutorial Sessions will be organized with the cooperation of the **MCnet Collaboration**.



*The School is ideally suited for advanced graduate students and recent PhDs.*

## Topics to be covered:

### Focused Introductory Reviews:

- Introduction to the Parton Model & Perturbative QCD
- Monte Carlo Introduction
- Deeply Inelastic Scattering
- Higgs at Hadron Colliders
- Vector Bosons / Direct Photons
- High Energy Jets
- Heavy Quarks

### In-depth Analysis and Phenomenology:

- Monte Carlo Tutorial
- Experimental Results from LHC
- QCD/EWK/Top at Hadron Colliders
- PDFs and Global Fits
- The Intensity Frontier:
- EIC & Related Topics
- The Standard Model and Beyond
- NLO/NNLO Computation & Matching/Merging

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**Review of Applications Begins: 1 March 2017**

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**SPONSORS:** U.S. Department of Energy, National Science Foundation, Fermi National Accelerator Laboratory, MCnet, Pittsburgh Particle physics, Astrophysics, & Cosmology Center (PITT-PACC)

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