

2018 CTEQ School

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

2018 CTEQ School

on

QCD and Electroweak Phenomenology

at the

University of Puerto Rico, Mayaguez, USA

18 – 28 June 2018

The school will be locally hosted by **University of Puerto Rico, Mayaguez**



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
- Deeply Inelastic Scattering
- Higgs Boson Physics
- Vector Bosons / Direct Photons
- Jets & Jet Substructure
- Heavy Quarks

In-depth Analysis and Phenomenology:

- Experimental Results from LHC
- QCD/EWK/Top Studies
- Monte Carlo Event Generators
- PDFs and Global Fits
- Neutrino & Muon Physics
- Machine Learning
- The Standard Model and Beyond

Review of applications begins: 1 March 2018

Website: www.cteq.org

E-mail: cteq.school@gmail.com

Sponsors: University of Puerto Rico, Mayaguez, Colegio De Fisica Fundamental E Interdisciplinaria De Las Americas (COFI), U.S. Department of Energy, National Science Foundation, Fermi National Accelerator Laboratory, Jefferson Lab, MCnet, Pittsburgh Particle Physics, Astrophysics, & Cosmology Center (PITT PACC)

Organizers: Tao Han, Kenichi Hatakeyama, Stefan Hoeche, Joey Huston, Cynthia Keppel, Sudhir Malik, Jorge Morfin, Fred Olness, Pavel Nadolsky, Paul Reimer, Dave Soper, Zack Sullivan, Nikos Varelas, Mayda Velasco, C.P. Yuan