



School on QCD and LHC Physics

Instituto de Física Teórica - UNESP, São Paulo, Brasil

July 22 - 31, 2015

With the start of Run II of the LHC, 2015 will be an exciting year for high-energy physics, posing new experimental and also theoretical challenges. Recent years have witnessed important advances in our ability to provide predictions for the increasingly complex final states that are of key importance to the LHC physics program. These advances draw on our greatly improved understanding of the structure of scattering amplitudes in gauge theories. This school is aimed at preparing graduate students for theoretical research in quantum chromodynamics as applied to the future research program at the LHC. Aspects of the school will also be valuable to younger postdoctoral fellows and graduate students in experimental high-energy physics. Attendees are invited to present their research activities in a poster session. *There is no registration fee and limited funds are available for local and travel support of participants.*

Organizers:

Fernando Febres Cordero (University of Freiburg)
Daniel de Florian (FCEyN - UBA)
David A. Kosower (IPhT - Saclay)
Rogério Rosenfeld (IFT-UNESP / ICTP-SAIFR)

Lecturers:

Zvi Bern (UCLA) – On-shell methods
Claude Duhr (Université Catholique de Louvain) – Precision Higgs
Johannes Henn (IAS – Princeton) – Feynman Integrals
Stefan Prestel (SLAC) – Parton Showers
Gavin Salam (CERN) – Basics on QCD
Andre Sznajder (UERJ) - LHC searches and Higgs results
Febres Cordero/de Florian/Kosower – Higher-Order Calculations



ICTP-SAIFR Steering Committee:

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The application deadline is May 15, 2015

The online registration form and more information can be found at:

www.ictp-saifr.org/qcdlhc