

LC11 Workshop: Understanding QCD at Linear Colliders in searching for old and new physics

12-16 September 2011
ECT*, Villa Tambosi, Trento (Italy)
<http://www.ect.it>

Bulletin n. 1 - March 28th, 2011

General

This Workshop is part of a series of workshops on physics at Linear Colliders, organized in Italy every year to stimulate and gather together the Italian community interested in Linear Colliders (LCs). The workshop invites scientists from everywhere in the world to discuss together topical arguments related to LCs. Previous editions have taken place in Florence, Perugia and Frascati (twice). This year the main topic chosen is QCD and the venue is the European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT*).

Venue

The ECT* is located a few km uphill from the center of Trento and can be reached by a short bus ride from the main hotels, where the participants will be hosted.

The city of Trento is the gateway to Italy from Northern Europe, 139 km away from the Brenner Pass and 348 km by car from Munich in Germany.

Trento has a long history as center of art and culture and is a good starting point for excursions to the Dolomite valleys, which can be reached by a one or two hours drive to the North, West and East. September is usually also a very good time to visit the apple growing valleys, and the many vineyards. Famed 'wine roads' are close by, most of them just a short ride away from Trento, to the North.

There is no international airport in Trento itself, but Trento is connected to major airports like Verona, Venice, Milan, Munich, Rome, etc. via highways and fast trains. Complete information on the ECT* and how to reach Trento can be found at the ECT* website <http://www.ect.it>.

Outline of the scientific programme

Status of the LC projects and their connections with the LHC
Precision measurements at e⁺e⁻ colliders
The structure of QCD from the multi-TeV to the GeV scale
QCD: from partons to hadrons
Higgs and Top physics
Physics beyond the Standard Model
DIS & photon-photon physics
The future of QCD in e⁺e⁻ physics
Medium energy projects in future e⁺e⁻ physics

Timetable

The workshop will start on Monday 12 September 2011 after lunch, so as to allow participants to arrive in the morning and settle before the start of the talks, and will end on Friday 16 September 2011 at lunch time. An excursion to one of the nearby valleys will be organized on Wednesday afternoon.

Scientific organization

The scientific planning is based on an Organizing Committee and ten Conveners who are responsible for organizing the various sessions.

Organizing Committee:

Stefania De Curtis (INFN Firenze, stefania.decurtis@fi.infn.it)

Albert De Roeck (CERN, deroeck@mail.cern.ch)

Marcello Piccolo (LNF Frascati, marcello.piccolo@lnf.infn.it)

Stefano Moretti (NExT Institute, Southampton U., s.moretti@soton.ac.uk)

Giulia Pancheri, Coordinator (LNF Frascati, pancheri@lnf.infn.it)

Orlando Panella (INFN Perugia, panella@pg.infn.it)

Francois Richard (LAL Orsay, richard@lal.in2p3.fr)

Conveners:

Higgs physics - Elena Accomando (NExT Institute, Southampton U.)

SUSY - Francesca Borzumati (Tohoku U.)

Tools - Carlo Carloni Calame (NExT Institute, Southampton U.)

Astroparticles - Denis Comelli (INFN Ferrara)

Top and QCD - Gennaro Corcella (LNF Frascati)

Beyond the Standard Model - Aldo Deandrea (IPN, Lyon)

Electroweak physics - Giuseppe Degrossi (Roma III U. and INFN Roma III) &
Massimo Passera (INFN Padova)

Vector boson fusion - Fulvio Piccinini (INFN Pavia)

Experimental issues - Marco Battaglia (CERN & Santa Cruz U.)

Registration and Accommodation

The Workshop charges no registration fee. Information about accommodation will be provided with the next bulletin. The workshop main website and INDICO pages are under construction.

Secretariat and Contacts

The Workshop local organization is done through the ECT* and Ms. Ines Campo, who is reachable at ines.campo@ect.it. For information about the scientific programme please contact anyone of the organizers or conveners. For other information please contact giulia.pancheri@lnf.infn.it