

Diffraction 2012


International Workshop on Diffraction in High-Energy Physics

Puerto del Carmen, Lanzarote
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Organized and Sponsored by

LHCPhenonet
Instituto de Física Teórica UAM/CSIC (SPAIN)
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<http://www.cs.infn.it/diff2012/>

Conveners and Topics

MARTA RUSPA (ruspa@mail.desy.de)

- ▷ **Diffraction in e-p collisions (experiment)**
 - inclusive DIS: total cross sections, structure functions, heavy flavors
 - inclusive diffraction and dijets in DIS
 - hard diffractive photoproduction
 - exclusive final states in diffractive DIS (vector mesons, DVCS, etc.)

CHRISTINA MESROPIAN
(christina.mesropian@rockefeller.edu)

- ▷ **Forward physics in hadron-hadron collisions**
 - soft and hard diffraction at the hadron colliders (RHIC, Tevatron, LHC)
 - total and inelastic cross section measurements
 - central exclusive production (RHIC, Tevatron, LHC)
 - forward physics at the LHC
 - gamma-p and gamma-gamma collisions at hadron colliders
- ▷ **Low-x physics at LHC**

RISTO ORAVA (risto.orava@helsinki.fi)

- ▷ **LHC and post-LHC**
 - results from LHC
 - prospects for QCD studies in the post-LHC era
 - high-energy QCD and astrophysics

LARRY MCLERRAN (mclerran@quark.phy.bnl.gov)

- ▷ **Saturation**
 - new results within the Color Glass Condensate model
 - saturation and evolution
 - diffraction from non-perturbative QCD

ZEIN-EDDINE MEZIANI (meziani@temple.edu)
JACQUES SOFFER (jacques.soffer@gmail.com)

- ▷ **Spin Physics**
 - new results on spin physics
 - spin and polarization physics
 - prospects in spin physics

DOUGLAS ROSS (dar@phys.soton.ac.uk)

- ▷ **Diffraction in DIS (phenomenology/theory)**
 - inclusive DIS, structure functions and partonic densities
 - inclusive diffractive DIS
 - vector meson production
 - generalized parton distributions
 - DVCS
- ▷ **Analyticity/duality models of inclusive diffractive reactions; Pomeron trajectory**

BORIS KOPELIOVICH (boris.kopeliovich@usm.cl)

- ▷ **Diffraction in hadron-hadron collisions**
 - single and double diffraction dissociation
 - multi-gap diffraction
 - diffractive Higgs production at Tevatron and LHC
 - diffractive Higgs production at large Feynman x
 - phenomenology of gap survival probability
 - Monte Carlo for soft processes

DMITRY IVANOV (d-ivanov@math.nsc.ru)

- ▷ **Progress in QCD**
 - perturbative QCD and factorization issues
 - leading-twist diffraction and the breakdown of pQCD factorization theorems
 - leading-twist diffractive DIS and nuclear shadowing
 - non-universal antishadowing
 - progress in AdS/QCD and related topics
 - diffractive dijet, hadrons light-front wavefunction from AdS/QCD, and color transparency
 - new results in the BFKL physics
 - new results in the color dipole kt-factorization approach

WLODEK GURYN (gurn@bnl.gov)

- ▷ **Diffraction in nuclear physics**
 - heavy ion collisions at RHIC
 - phenomenology of diffraction off nuclei
 - QCD studies of nuclear collisions
 - new physics via QCD processes at LHC

International Advisory Committee

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