

# Diffraction 2014

## International Workshop on Diffraction in High-Energy Physics

**Primošten (Croatia)**  
September 10 - 16, 2014

*Organized and Sponsored by*

Istituto Nazionale di Fisica Nucleare (ITALY)  
Rudjer Boskovic Institute, Zagreb (CROATIA)  
Università della Calabria (ITALY)  
University of Zagreb (CROATIA)  
DESY, Hamburg (GERMANY)  
CERN, Geneva



<http://www.cs.infn.it/diff2014/>

### 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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