

Diffraction 2010

International Workshop on Diffraction in High-Energy Physics

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Organized and Sponsored by

Università della Calabria (ITALY)
Istituto Nazionale di Fisica Nucleare (ITALY)
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<http://www.cs.infn.it/diff2010/>

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
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- ▷ **Forward physics in hadron-hadron collisions**
- Diffraction at hadron colliders (RHIC, Tevatron, LHC)
- Central exclusive production at Tevatron and at the LHC
- Soft diffraction 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**
- First 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)
ALEXEI PROKUDIN (prokudin@jlab.org)

- ▷ **Spin Physics**
- New results on spin physics
- Spin and polarization physics
- Prospects in spin physics

IGOR IVANOV (Igor.Ivanov@ulg.ac.be)

- ▷ **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 KOPELOVICH (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

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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