

Diffraction 2016

International Workshop on Diffraction in High-Energy Physics

<http://www.cs.infn.it/diff2016/>

Santa Tecla di Acireale (Italy)
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Organized and Sponsored by



Istituto Nazionale di Fisica Nucleare (Italy)



Università della Calabria (Italy)



DESY, Hamburg (Germany)



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Conveners and Topics

MARTA RUSPA (ruspa@mail.desy.de)
DOUGLAS ROSS (dar@phys.soton.ac.uk)

▷ Diffraction in e-p collisions

- 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.)
- Generalized parton distributions
- Analyticity/duality models of inclusive diffractive reactions; Pomeron trajectory
- Processes with Odderon exchange

CHRISTINA MESROPIAN
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RISTO ORAVA (risto.orava@helsinki.fi)

▷ Diffraction in hadron-hadron collisions (experiment)

- 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

BORIS KOPELIOVICH (boris.kopeliovich@usm.cl)

▷ Diffraction in hadron-hadron collisions (phenomenology/theory)

- Single and double diffraction dissociation
- Multi-gap diffraction
- Diffractive Higgs production at forward rapidities of heavy flavours, gauge bosons, Drell-Yan dileptons and Higgs
- Phenomenology of gap survival probability
- Monte Carlo for soft processes

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

WLODEK GURYN (gurn@bnl.gov)

▷ Diffraction in nuclear physics

- Heavy ion collisions at RHIC
- Phenomenology of diffraction off nuclei
- Ultraperipheral collisions
- QCD studies of nuclear collisions

DMITRY IVANOV (d-ivanov@math.nsc.ru)
LARRY McLERRAN (mclerran@quark.phy.bnl.gov)

▷ 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
- New results within the Color Glass Condensate model
- Saturation and evolution
- Diffraction from non-perturbative QCD

International Advisory Committee

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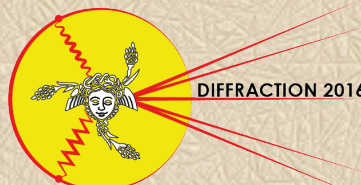
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Workshop Secretary

R. Bertelli INFN, Frascati

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