Diffraction and Low-x 2024



Sunday 8 September 2024 - Saturday 14 September 2024 Hotel Tonnara Trabia, Palermo, Sicily

Scientific Programme

Low x, PDFs, and saturation

Conveners: Francesco Giuli, Tuomas Lappi, Roman Lavicka

PDFs at low and high x New results within the Color Glass Condensate model Saturation and evolution Saturation in heavy ion

Diffraction in pp and AA

Conveners: Lucian Harland Lang, Ken Osterberg, Murilo Rangel, Rafal Staszewski

Soft diffraction at the hadron colliders Total and inelastic cross section measurements Odderon physics Central exclusive production of low-mass particles Glueball production Forward physics at the LHC Forward detectors Phenomenology of gap survival probability Monte Carlo for soft processes Heavy ion collisions at RHIC and EIC Phenomenology of diffraction off nuclei Hard diffraction at the hadron colliders Monte Carlo for hard processes

Ultraperipheral collisions and gamma-gamma physics

Conveners: Lydia Beresford, Victor Goncalves, Georgios Krintiras, Riccardo Longo

Gamma-p and gamma-gamma collisions at hadron colliders Beyond standard model and photon exchange processes Ultraperipheral collisions

Spin physics

Conveners: Barbara Badelek, Umberto D'Alesio

New results on spin physics Spin and polarization physics Prospects in spin physics Generalized parton distributions Transverse momentum dependent PDFs

Results on QCD and Hadronic Final States

Conveners: Marco Bonvini, Cristian Baldenegro, Josu Cantero Garcia, Francesco G. Celiberto

pQCD predictions Jet cross sections and algorithms Jet substructures Multiplicities Vector meson, pion, etc. productions Formal developments in QCD (resummation, factorization, evolution) New results in the BFKL physics New results in the color dipole/kt-factorization approach Progress in AdS/QCD, integrability and related topics

Diffraction in ep and eA

Conveners: Rachel Montgomery, Marta Ruspa, Zhoudunming Tu

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.) Analyticity/duality models of inclusive/diffractive reactions; Pomeron trajectory Diffraction at the EIC Forward detectors and Roman pots