

1. Record Nr.	UNINA9910784900603321
Titolo	Proceedings of the first Workshop on Quark-Hadron Duality and Transition to pQCD [[electronic resource]] : Frascati, Italy 6-8 June 2005 // Alessandra Fantoni, Simonetta Liuti, Oscar A. Rondon, editors
Pubbl/distr/stampa	Hackensack, NJ, : World Scientific, c2006
ISBN	1-281-91930-6 9786611919306 981-277-413-0
Descrizione fisica	1 online resource (xi, 284 p.) : ill
Altri autori (Persone)	FantoniAlessandra LiutiSimonetta RondonOscar A
Disciplina	539.7/2167
Soggetti	Quarks Hadrons
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction and review: experimental and theoretical status. Introductory remarks on duality in Lepton-Hadron scattering / C. E. Carlson. Duality in the polarized structure functions / H. P. Blok. Spin structure of the nucleon and aspects of duality / Z. E. Meziani -- Duality and confinement. Quark models of duality in electron and neutrino scattering / W. Melnitchouk. Recent predictions from the statistical parton distributions / J. Soffer. Hadron structure on the back of an envelope / A. W. Thomas, R. D. Young and D. B. Leinweber. The strong coupling constant at low Q[symbol] / A. Deur. Spin duality on the neutron ([symbol]He) / P. Solvignon. Local duality in spin structure functions [symbol] and [symbol] / Y. Prok. Spin-flavor decomposition and in polarized semi-inclusive deep inelastic scattering experiments at Jefferson Lab / X. Jiang. Spin structure functions: proton/deuteron measurements in the resonance region / M. K. Jones -- Duality in photoproduction. Duality in vector-meson production / A. Donnachie. Photopion production from nucleon and scaling / H. Gao and D. Dutta. Onset of scaling in exclusive processes / M. Mirazita. Exclusive baryon-

antibaryon production in $e\text{-}e$ colliders / T. Barillari. Photoabsorption and photoproduction on nuclei in the resonance region / S. Schadmand -- Duality in nuclei. A partonic picture of jet fragmentation in nuclei / X.-N. Wang. Hadron attenuation by (Pre-)hadronic final state interaction at HERMES / T. Falter, K. Gallmeister and U. Mosel. Quark gluon plasma and hadronic gas on the lattice / M. P. Lombardo -- Duality in neutrino experiments. Neutrinos and local duality / F. Steffens and K. Tsushima -- Duality and QCD. Higher twist effects in polarized DIS / E. Leader, A. V. Sidorov and D. B. Stamenov. Higher twist effects in polarized experiments / N. Liyanage. Status of polarized and unpolarized deep inelastic scattering / J. Blumlein. The transition between perturbative and non-perturbative QCD / A. Fantoni and S. Liuti. Highly excited hadrons in QCD and beyond / M. Shifman. Hidden QCD scales and diquark correlations / A. Vainshtein. Nearly-conformal QCD and AdS/CFT / G. de Teramond and S. J. Brodsky. Matching meson resonances to OPE in QCD / S. S. Afonin ... [et al.] -- Future perspectives. Generalised parton distributions / M. Guidal. Experimental overview on exclusive processes / D. Hasch. Transverse polarization and quark-hadron duality / O. V. Teryaev. The extension to the transverse momentum of the statistical parton distributions / F. Buccella. Research perspectives at Jefferson Lab / K. de Jager. Perspectives with PANDA / P. Gianotti. Transversity measurement with polarized proton and antiproton interactions at GSI: the PAX experiment / P. F. Dalpiaz. Conclusion. Summary talk on quark-hadron duality / P. Hoyer.
