

QCD MECHANISMS IN THE PARTON STRUCTURE OF MESONS

Peter Tandy¹

¹ Center for Nuclear Research, Department of Physics, Kent State University, Kent, Ohio, 44242 USA

A summary is provided for results on the parton structure of selected mesons as obtained from covariant and continuum calculations that have a direct connection to QCD and provide the full dependence upon the momentum fraction variable. These results complement and extend the results for low moments obtained from lattice-QCD. Many of the results provide physical insight into underlying dynamical aspects such as dynamical chiral symmetry breaking and flavor symmetry breaking. Topics include distribution amplitudes, parton distribution functions, and relationships to the ultraviolet behavior of exclusive elastic and transition form factors of pions and kaons.