

Diffractive dissociation at the LHC

Emerson G. S. Luna (Institute for Particle Physics Phenomenology (IPPP) Durham University - UK & UFPEL)

We describe the formalism, and present the results, for a triple-Pomeron analysis of the available pp and $p\bar{p}$ high-energy data accounting explicitly for absorptive corrections. In particular, we allow for the gap survival probability, S^2 , in single proton diffractive dissociation. We show that the bare triple-Pomeron coupling that we extract from pp data is consistent with that obtained in a description of the $\gamma p \rightarrow J/\psi + Y$ HERA data. Our results prefer the small size of the bare vertex, giving the hope of a smooth matching to the perturbative QCD treatment of the triple-Pomeron coupling.