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Event Shape Variables in Deep-Inelastic Scattering

H1 Collaboration

Abstract

Deep-inelastic ep scattering data are used to study event shape variables thrust, jet broadening, C parameter and jet mass in the current hemisphere of the Breit frame over a large range of momentum transfer Q. A comparison with NLO QCD calculations makes possible a determination simultaneously of the hadronization power corrections and the strong coupling constant α_S.

Plenary Sessions:
2. Soft Interactions and Diffraction Phenomena - S. Levonian
4. QCD and Low x Physics - H. Abramowicz, R. Brock
5. AlphaS Determination and Implications - M. Schmelling, G. Sterman
Parallel Session: I Strong Interaction Physics
2. Soft Interactions
3. Structure Functions and Low x Physics
4. Hard Processes and Perturbative QCD