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Relations

5 Extrapolation of Total Cross Sections beyond the Accelerator Energies

6 Universal Shrinkage of Diffraction Cones; 7 Conclusion; References

Pomeron before and after QCD; Abstract; 1 Regge kinematics

; 2 Reggeons and Pomeron; 3 Parton model; 4 Gluon and quark
reggeization

5 The reggeon dynamics in multi-colour QCD

Sommario/riassunto

Recently there has been much interest in studying events with tagged forward protons at the existing and forthcoming hadronic colliders, the Tevatron and the LHC. These studies not only allow one to monitor the luminosity of the colliding protons with high accuracy but also provide new ways of investigating the subtle issues of QCD dynamics and searches for the manifestations of new physics. This book reviews the state of the art of forward physics measurements and the theoretical development. It will catalyze many new approaches within the framework of the extensive physics programme of the...
