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1.2 CMB and the Hubble Constant1.3 CMB and Omega; References; GALACTIC WINDS AT HIGH REDSHIFT AND SMALLS CALE CMB ANISOTROPY; 1 Introduction; 2 CMB distortion from winds; 2.1 Modelling the ensemble of galactic outflows; 2.2 Distortion of the CMB background; 3 Results and discussions; Acknowledgments; References; DETERMINATION OF THE COSMOLOGICAL PARAMETERS USING THE CMB RADIATION; 1 The H0 - to and H0 - diagrams; References; BIG BANG NUCLEOSYNTHESIS; 1 Introduction; 2 Data; 2.1 4He; 2.2 7Li; 3 Concordance; Acknowledgments; References; BIG-BANG NUCLEOSYNTHESIS WITH THE NACRE COMPILATION ReferencesISSUES IN NON-STANDARD BIG BANG NUCLEOSYNTHESIS; Acknowledgments; References; LEPTON ASYMMETRIC UNIVERSE: NEW LIMITS FROM BBN AND THE CMB; Part 2. Origin and Evolution of the Light Elements; D / H MEASUREMENTS; 1 Introduction; 2 Interstellar observations; 3 The nearby ISM; 4 The FUSE observatory; 5 Conclusion; Acknowledgments; References; A NEW MEASUREMENT OF THE PRIMORDIAL D /H RATIOIN THE INTERGALACTIC MEDIUM: HS 0105+1619; 1 Introduction; 2 HS 0105+1619; 2.1 The Hydrogen; 2.2 The Deuterium; 2.3 Metal Lines; 3 New Values for D/H & Cosmological Parameters; Acknowledgments
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Sommario/riassunto

This is the proceedings of an international conference on the evolution of matter in the Universe, with emphasis on the following topics: big bang nucleosynthesis, cosmic ray nucleosynthesis, stellar nucleosynthesis, galactic chemical and dynamical evolution, and evolution with redshift and cosmic chemical evolution in general.