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Astrophysics > Cosmology and Extragalactic Astrophysics

Cosmology today-A brief review

(Submitted on 9 Jul 2011 (v1), last revised 14 Nov 2011 (this version, v2))

Subjects: Cosmology and Extragalactic Astrophysics (astro-ph.CO); General

25 pages, 2 figures, v2: a typo corrected

This is a brief review of the standard model of cosmology. We first introduce the FRW models and

then introduce different cosmological lengths and some of their applications. The later part is

their flat solutions for energy fluids playing an important role in the dynamics at different epochs. We

dedicated to the physical processes and concepts necessary to understand the early and very early

Relativity and Quantum Cosmology (gr-qc); High Energy Physics - Theory

(hep-th)

Journal reference: AIP Conf. Proc. Vol. 1396, pp. 28-52 (2011)

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Universe and observations of it.

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