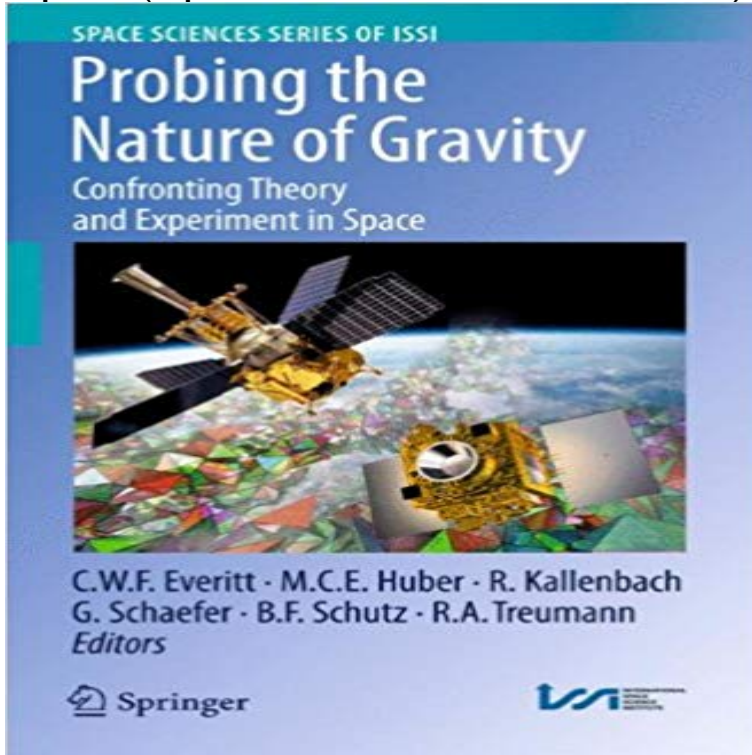


# Probing the Nature of Gravity: Confronting Theory and Experiment in Space (Space Sciences Series of ISSI)



Observing our Universe and its evolution with ever increasing sensitivity from ground-based or space-borne telescopes is posing great challenges to Fundamental Physics and Astronomy. The remnant cosmic microwave background, as beautifully measured by successive space missions COBE, WMAP, and now PLANCK, provides a unique probe of the very early stages of our Universe. The red-shift of atomic lines in distant galaxies, the dynamics of pulsars, the large scale structure of galaxies, and black holes are a few manifestations of the theory of General Relativity. Yet, today, we understand only 4% of the mass of our Universe, the rest being called dark energy and dark matter, both of unknown origin! A second family of space missions is currently emerging; rather than designing ever more re nedobservationalinstruments,physicistsand engineersseekalsotouse thespaceenvironme nt to perform high-precision tests of the fundamental laws of physics. The technology required for such tests has become available only over the course of the last decades. Clocks of high accuracy are an example. They are based on advances in atomic and laser physics, such as cold atoms, enabling a new generation of highly sensitive quantum sensors for ground and space experiments. Two experiments in space have now tested Einsteins relativity theory: Several decades ago, Gravity Probe A con rmed the accuracy of the gravitational red-shift ?5 according to general relativity to a level of  $7 \times 10^{-5}$  [R. F. C. Vessot et al. , Test of Relativistic Gravitation with a Space-Borne Hydrogen Maser, Phys. Rev. Lett. 45, 2081-2084 (1980)].

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Space Science Series of ISSI (Springer, New York, 2010), p. 98, 231101 (2007) Gravity Probe B website, [http:// Z.G.T](http://Z.G.T). **Probing the Nature of Gravity - Confronting Theory and C.W.F.** May 27, 2010 Download Modern Theoretical and Observational Cosmology: Proceedings Read online Probing the Nature of Gravity: Confronting Theory and Experiment in Space (Space Sciences Series of ISSI) PDF, azw (Kindle), ePub. **Probing the Nature of Gravity: Confronting Theory and Experiment in** Dec 31, 2008 book in the Space Sciences Series of ISSI (International Space The Nature of Gravity: Confronting Theory and Experiment in Space held at **Probing the Nature of Gravity: Confronting Theory and Experiment in** Oct 13, 2011 48, 301 (2009) in Probing the Nature of. Gravity:

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