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Search or Article-id (Help | Advanced search) arXiv.org > astro-ph > arXiv:1107.5695 - Go! All papers Astrophysics > Cosmology and Extragalactic Astrophysics Download: PDF Lemaître and Hubble: What was PostScript Other formats discovered - if any - in 1927-29? astro-ph.CO A.D. Chernin < prev | next > new | recent | 1107 (Submitted on 28 Jul 2011) Change to browse by: The Big Bang predicted theoretically by Friedmann could not be discovered in astro-ph the 1920th, since global cosmological distances (more than 300-1000 Mpc) physics were not available for observations at that time. In 1927-29, Lema\^itre and physics.hist-ph Hubble studied receding motions of galaxies at local distances of less than 20-30 Mpc and found that the motions followed the (nearly) linear velocitydistance relation, known now as Hubble's law. For decades, the real nature of **INSPIRE HEP** this phenomenon has remained a mystery, in Sandage's words. After the (refers to | cited by) discovery of dark energy, it was suggested that the dynamics of local NASA ADS expansion flows is dominated by omnipresent dark energy, and it is the dark Bookmark(what is this?) energy antigravity that is able to introduce the linear velocity-distance relation 📃 🐵 🗶 🔜 🖬 🖬 😴 to the flows. It implies that Hubble's law observed at local distances was in fact Science WISE the first observational manifestation of dark energy. If this is the case, the commonly accepted criteria of scientific discovery lead to the conclusion: In 1927, Lema\^itre discovered dark energy and Hubble confirmed this in 1929.

Comments: 6 pages

Subjects: Cosmology and Extragalactic Astrophysics (astro-ph.CO); History and Philosophy of Physics (physics.hist-ph) arXiv:1107.5695 [astro-ph.CO] Cite as: (or arXiv:1107.5695v1 [astro-ph.CO] for this version)

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