



Is the aether entrained by the motion of celestial bodies? What do the experiments tell us?

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(Submitted on 20 Mar 2012)

Even though the concept has evolved and if the designation as aether is improperly regarded as outdated, nobody today considers that the vacuum is empty. However, the nature and the properties of the substratum, which permeates the entire universe, remain for the most part unspecified. For example, divergent opinions are put forward by physicists about a possible dragging of the aether by the translational motion of celestial bodies due to gravitation. We show in this text that such a hypothesis is inconsistent with well established experimental data which, on the contrary, lend support to non-entrained aether theory based on Lorentz contraction. A reevaluation of the aether drift to which the Earth is subjected is carried out.

Comments: 18 pages 3 figures

Subjects: **General Physics (physics.gen-ph)**

Cite as: [arXiv:1204.1885](#) [physics.gen-ph]

(or [arXiv:1204.1885v1](#) [physics.gen-ph] for this version)

Submission history

From: Joseph Levy [[view email](#)]

[v1] Tue, 20 Mar 2012 14:49:50 GMT (228kb)

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