

Re: Antigravity, our doom?

Source: <http://sci.tech-archive.net/Archive/sci.physics/2007-09/msg00526.html>

- *From:* Sam Wormley <swormley1@xxxxxxxxxx>
 - *Date:* Fri, 07 Sep 2007 22:15:21 GMT
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pipoxyz wrote:

On Sep 7, 11:32 pm, Sam Wormley <sworml...@xxxxxxxxxx> wrote:

pipoxyz wrote:

Science is ever evolving, take for example the pioneers 10 and 11 missions. Nearing the edge of our solar system, both where slowing down. Even factoring in the gravitational pull of the sun. Possibly redering Einsteins theories of gravity by bended space, false.

How come this phenomenon doesn't show up with all the other bodies of the solar system?

Well, this is a whole new discussion, all i know is that the data came from 2 seperate devices, verified by independent researchers, and all possible explanations have been accounted for and are said not to be able to be the cause of this magnitude. All that is left to explain it by is dark matter, dome extradimensional stringtheorythingy, or a flaw in our understanding of gravity.

For Background, readers should see Anderson, et al paper, "The Apparent Anomalous, Weak, Long-Range Acceleration of Pioneer 10 and 11":

<http://arxiv.org/abs/gr-qc/0104064>

The acceleration produced by directional radiation from these spacecraft is calculated to be $(10.3 \pm 1.3) \times 10^{-8} \text{ cm s}^{-2}$ which is consistent with the acceleration of $12 \pm 3 \times 10^{-8} \text{ cm s}^{-2}$ reported by Anderson, et al.

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Also: <http://arxiv.org/abs/gr-qc/0205059>
General Relativity and Quantum Cosmology, abstract
gr-qc/0205059

From: Michael Martin Nieto <m...@xxxxxxx>
Date (v1): Wed, 15 May 2002 19:33:18 GMT (56kb)
Date (revised v2): Mon, 27 May 2002 20:13:34 GMT (57kb)
Date (revised v3): Fri, 18 Oct 2002 19:53:43 GMT (58kb)

A Mission to Test the Pioneer Anomaly

Authors: John D. Anderson, Michael Martin Nieto, Slava G. Turyshev
Comments: Final changes for publication. Honorable Mention, 2002
Gravity Research Foundation Essays
Report-no: LA-UR-02-29
Journal-ref: Int.J.Mod.Phys. D11 (2002) 1545-1552

Analysis of the radio tracking data from the Pioneer 10/11 spacecraft has consistently indicated the presence of an anomalous small Doppler frequency drift. The drift can be interpreted as being due to a constant acceleration of $a_P = (8.74 \pm 1.33) \times 10^{-8}$ cm/s² directed towards the Sun. Although it is suspected that there is a systematic origin to the effect, none has been found. The nature of this anomaly has become of growing interest in the fields of relativistic cosmology, astro- and gravitational physics as well as in the areas of spacecraft design and high-precision navigation. We present a concept for a designated deep-space mission to test the discovered anomaly. A number of critical requirements and design considerations for such a mission are outlined and addressed.

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