

Re: Moving masses

Source: <http://sci.tech-archive.net/Archive/sci.physics.relativity/2005-03/1080.html>

From: Rafael Valls Hidalgo-Gato (valls_at_icmf.inf.cu)

Date: 03/04/05

Date: 4 Mar 2005 11:01:10 -0800

"Ian" <ian345@hotmail.com> wrote in message news:<38qroqF5eu97hU1@individual.net>...

> *Are there any objects in space with mass moving at fast speeds that would*

> *cause a measurable time dilation relative to earth.*

The 24 orbiting satellites of the Global Positioning System (GPS).

Each one includes an atomic clock with a pre-launch time dilation

correction computed using SR and GR. All details in the following

article of Neil Ashby (University of Colorado):

<http://livingreviews.org/Articles/Volume6/2003-1ashby>

RVHG