

Re: Bending of light not well authenticated

Source: <http://sci.tech--archive.net/Archive/sci.physics.relativity/2005-05/msg00976.html>

- *From:* "Randy M. Dumse" <rmd@xxxxxxxxxxxxxx>
 - *Date:* Fri, 13 May 2005 20:28:22 -0500
-

"John C. Polasek" <jpolasek@xxxxxxxxxxx> wrote in message
news:k5hv6113c73c5ma29aj276jfvrtgdsrta5@xxxxxxxxxxx
> They may be self consistent but can you tell me, in fewer than 6
> declarative sentences, what are the basic physics involved?

Sure, that sounds like a reasonable challenge. Let's see what I can do with it...

Einstein's theory is one of curved space-time, not just curved space, and not just of curved time. As light passes through the the deeper gravitational field, it is slowed relative to the far away observer, and this causes it to be deflected somewhat as if it were in a prism (faster-region, slower-region, faster-region). As light passes through the the deeper gravitational field, it has "further to go", and that deflects the light with an equal component. So in the deeper field near a gravitating body, both the slowing of time relative to the far away observer, and the shortening of measurements relative to the far away observer, each deflect light by an amount equivalent to a Newtonian deflection of equivalent mass for a final effect 2x that of a Newtonian origin.

That's four statements, so you may the remaining two statements to ask questions, as appropriate.

--

Randy M. Dumse

Caution: Objects in mirror are more confused than they appear.

.

- *Follow-Ups:*
 - ◆ ***Re: Bending of light not well authenticated***
 - ◇ *From:* Koobee Wublee

Re: Bending of light not well authenticated

◆ **Re: Bending of light not well authenticated**

◇ From: John C . Polasek

- Prev by Date: **Re: general relativity is wrong**
- Next by Date: **relativity of simultaneity – real or perceived?**
- Previous by thread: **Re: Bending of light not well authenticated**
- Next by thread: **Re: Bending of light not well authenticated**
- Index(es):
 - ◆ **Date**
 - ◆ **Thread**