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SPEED OF LIGHT DECAY (CDK)  
MATCHES ERROR IN PREDICT-  
ING ADVANCE OF PERIHELION  
OF MERCURY.

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University of Auckland,  
New Zealand.

Mercury perihelion

CDK 9

SPEED OF LIGHT DECAY (GDK) MATCHES ERROR IN PREDICTING ADVANCE OF PERIHELION OF MERCURY. 21/09/10

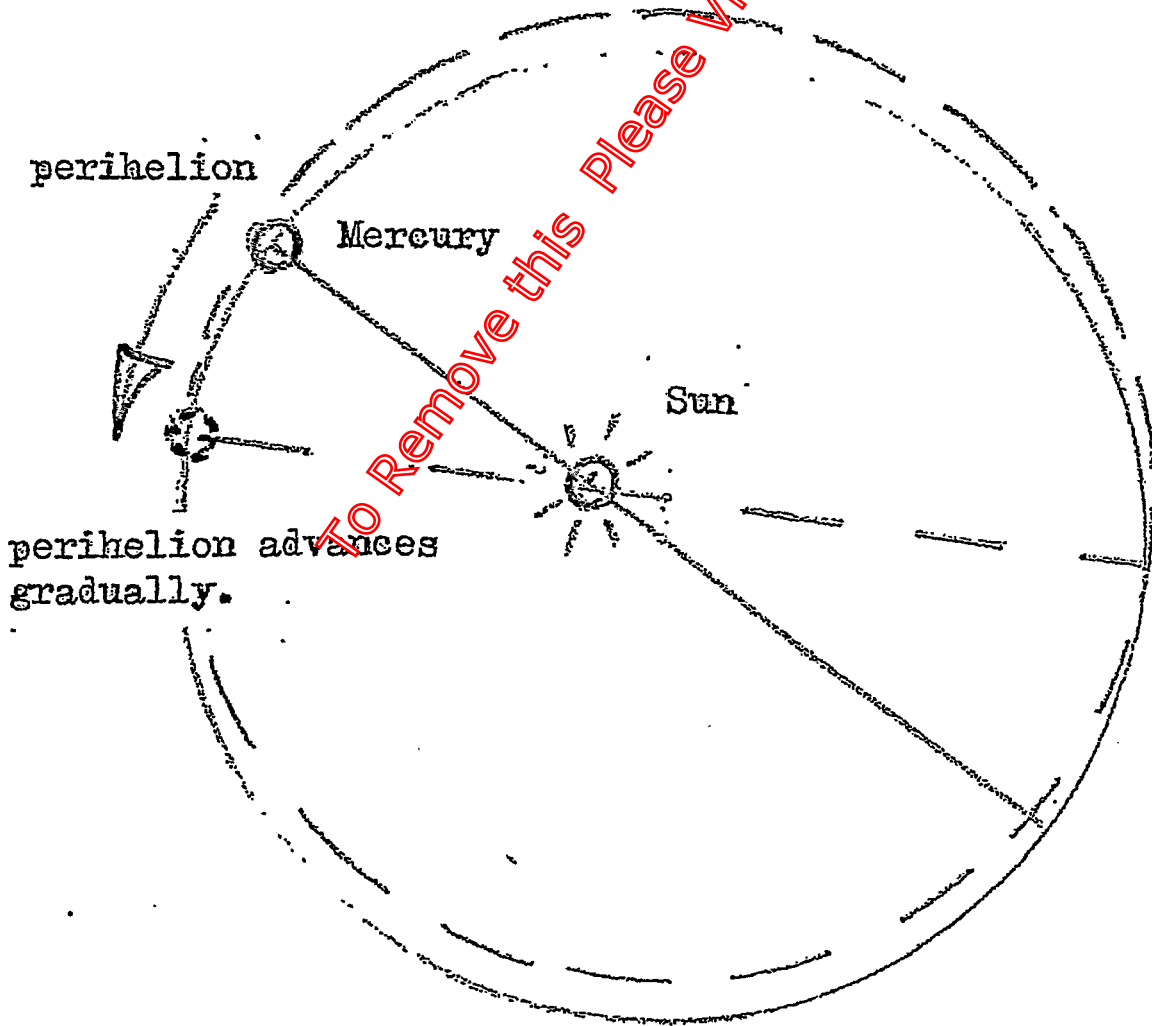
WHAT IS A PERIHELION?

Perihelion means Closest approach to the sun.

All planets, in their orbits, have the sun SOMEWHAT OFF CENTRE, more or less. They thus move away from the sun, and move closer to the sun, in their orbits.

In the case of Mercury, the close approach to the sun is much more evident than in the other planets.

See diagram below.



You will see in the diagram that the perihelion tends to advance a little with each orbit of Mercury. This ADVANCE OF THE PERIHELION is quite normal and expected. What with Mercury being so close to us, and the perihelion of Mercury being so very evident, the advance of the perihelion can be measured in microscopic detail.

WHAT ERROR IS FOUND IN THE ADVANCE OF THE PERIHELION?

The motions of the planets, including the advance of the perihelion, can be calculated and predicted by ordinary Newtonian laws of motion. But in his book *The Birth of a New Physics*, Dr. I. Bernard Cohen says.....

'There is ONE example of a failure of Newtonian physics: a very small error in predicting the advance of the perihelion of Mercury - 40" (40 seconds of arc) per century! - for which we need to invoke Relativity theory.' (Emphasis and brackets mine.)

WHAT DOES 'RELATIVITY' DO?

The 40 seconds of arc error per century shows up in observations as a time error.

'Relativity' is said to distort time by means of GRAVITY. In supernatural fashion, TIME is supposed to SLOW DOWN in gravity fields. The STRONGER the GRAVITY, the SLOWER the TIME.

It is reasoned that since MERCURY is CLOSEST TO THE SUN of all planets, and is subject to THE MOST GRAVITY, a TIME ERROR in predicting perihelion advance will be caused by 'relativity' time effects.

IS 'RELATIVITY' A PROVEN FACT?

No. Time distortion by 'relativity' fails the reality check experiment outlined on pages 6 and 7 of CDK-4 (Some Calculations of the Speed and Deceleration of Light. See website).

Since 'relativity' is NOT REAL, it cannot be causing error in perihelion observations!!

IF NOT 'RELATIVITY' CAUSING ERROR, THEN WHAT?

It is much more likely that the TIME error in predicting the advance of the perihelion of Mercury is due to slowing light speed, and a compounding error in observations of the perihelion advance.

This is like the Pioneer anomaly, which can be explained by slowing light speed.

See: The Pioneer Anomaly: Probe Travel 'Deficit' of 240,000 Miles Matches Travel Deficit of Slowing 10-Hour Radio Signal. CDK-6 1/06/2008 Website or c/o University of Auckland.

HOW MUCH TIME ERROR IS INVOLVED?

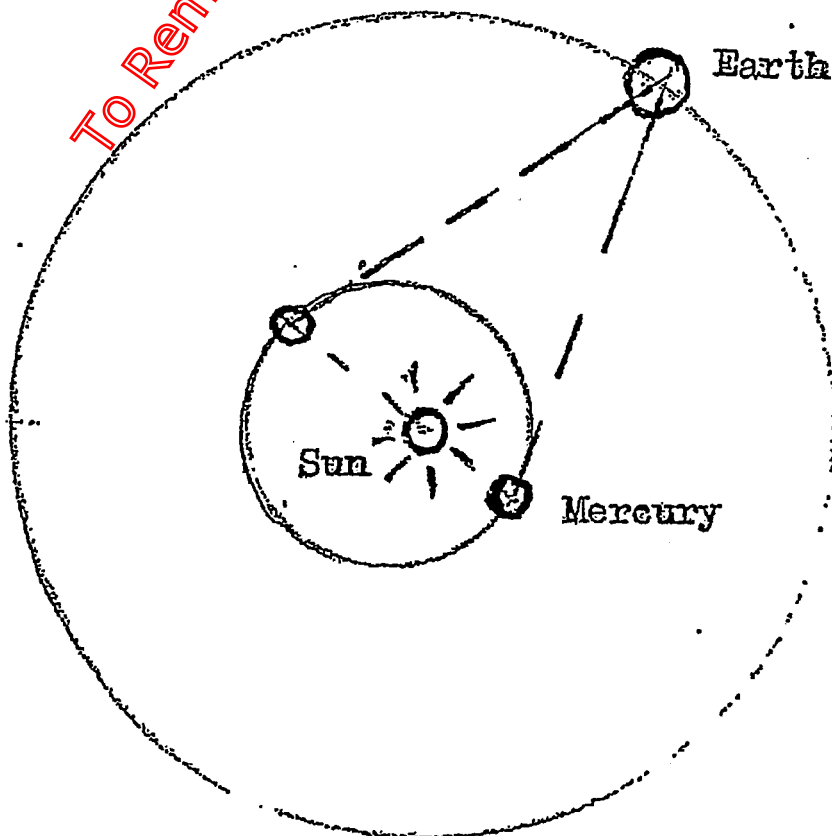
In other words, how much time does it take for Mercury to travel through 40" of arc?

To cut a long story short, Mercury AVERAGES 234.72 seconds of time to travel 40" of angle. But note that Mercury TRAVELS FASTER THAN AVERAGE through 40" of angle WHEN AT PERIHELION. Closer to the sun means faster orbit speed.

The time taken for 40" arc travel at perihelion is only some 200 seconds. This is very important.

WHAT IS THE ACCUMULATED TIME ERROR FROM SLOWING LIGHT SPEED?

Around 200 seconds per century!! Mercury is, on average, roughly, the Earth's orbital radius away from the Earth. See diagram.



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The change in time, over 100 years, for light to reach the Earth from the sun, is 4.045 seconds.

So a similar time delay should apply for observations of events on Mercury. They are now delayed by 4 seconds per year compared to a century ago.

So that the AVERAGE delay over the last century has been around 2 seconds per year.

If this delay is allowed to ACCUMULATE for 100 years, the result is 200 seconds worth of ERROR.

#### CONCLUSIONS.

Well folks, there it is. One hundred years of accumulated error in not allowing for slowing light speed nicely matches the error in predicting the advance of the perihelion of Mercury.

#### IS SLOWING LIGHT SPEED THE CAUSE OF THE ERROR? . .

It looks likely. Relativity fails the reality test. Speed of light decay equations are a practical tool for astronomical observations. Increasing delay in light reaching the Earth must be taken into account.

EDITOR'S COMMENTS.

Nice to be reporting again for the lollo team.  
Inky, Sparrow, Bill and Mrs H.

And from the team and me, Cheerio! until next  
time.

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and [www.lollo.org.nz](http://www.lollo.org.nz)  
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END NOTES.

CALCULATION OF LIGHT SPEEDS AND TIME DELAY....

You can calculate these yourself! See CDK-4,  
Some Calculations of the Speed and Deceleration of  
Light, to calculate the slowing light speeds given  
below.

Earth's orbit average	$149.5978 \times 10^9$ m
Speed of light, 2006	$298.31797 \times 10^6$ m/s
Speed of light, 1906	$300.74371 \times 10^6$ m/s
Light travel time from sun, 2006	501.4709 seconds
Light travel time from sun, 1906	497.4261 seconds
YEARLY TIME DELAY after 100 yrs	4.0448 seconds

MERCURY FACTS AND FIGURES.

Orbit radius, average	$57.9 \times 10^9$ m
Eccentricity, e	.2056
Orbit time	.241 years
Number of seconds in one year	$3.15576 \times 10^7$
Seconds of arc in $360^\circ$ orbit	1,296,000"

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