

6.4.94 21 11 50 } Diff. 111
 5.4.00 21 13 41

2 Schaltjahre (96 + 2000)

- Diff. 6.4 - 5.4.2000

= + 1 Tag *

$$6 \times 365 \times 86400$$

$$+ 86400$$

$$+ 111 (+106.9) (4.1s)$$

$$(6 \times 366 + 1 = 2197)$$

$$: 2197 = 86164,09240$$

$$\text{Bei } + 4,1s = 86164,09053$$

$$\text{Bei } + 4s = 86164,09058$$

4,1 : 6 = 0,68 s pro Jahr zu spät

30.5.94

17 39 27

30.5.2000

17 37 23

} 124

$$6 \times 365 \times 86400$$

$$+ 2 \times 86400$$

$$- 124$$

$$: 2194 = 86164,09241$$

Bei - 129 = 86164,09054

5 : 6 = 0,83 s/J. zu spät

$$\begin{array}{r}
 5.4.99 \quad 21h 16' 36.5'' \\
 5.4.00 \quad 21h 13' 41'' \\
 \hline
 - 175,5
 \end{array}$$

$$366 \text{ Sonntage} \times \$6400 - 175,5 : 367 \text{ Sonntage} = \$6164,09946$$

$$\$6164,09946 \times 366,24219474 = 31556929,241$$

$$- 31556925,974'$$

$$+ 3,27'$$

(a) The mathematical proof has verified the physical fact that only the rigorous relationship between the absolute rotation of the Earth on its axis (mean sidereal day) and the mean solar day determines the complete orbit period, and therefore the total number of absolute rotations in a sidereal year. The complete orbit period does not depend upon changes in the orientation of the Earth's axis in space and/or fluctuations in the rate of rotation.

(b) It was suggested that the observations of Sirius are ambiguous. Two specific transit times were listed to calculate a sidereal year. The method of calculation is based on the time difference between the two observations. The method of calculation is based on the time difference between the two observations.

Legt man z.Bsp. die Meßwalte für die Zeitspanne 6 April 94 bis 5 April 98 zu Grunde ergibt das einen negativen Wert von $-0,39 \text{ s pro Jahr}$, eine Erdprezession also in der anderen Richtung?

$$6.4.94 \quad 21h 11' 50''$$

$$3 \times 365$$

$$5.4.98 \quad 21h 15' 37''$$

$$364$$

$$\text{Schalltag } 1$$

$$+ 227 \text{ s}$$

$$1460 \times \$6400 + 227 : 1464 =$$

$$\$6164,08944 \times 366,24219474 = 31556925,54$$

$$\underline{\underline{\$6164,09944}}$$

$$- 31556925,97$$

$$- 0,39 \text{ s}$$

Daß diese unternordlich-Schwankung in der Tat gegenüber Sirius existiert kann man aus dem Diagramm von 1949 - 2001 entnehmen.

20.4.94 20 16 48,5 } Diff. 10.808,5
 5.6.99 17 16 40

bei * 17 16 33,5

$$5 \times 365 \times 86400$$

$$47 \times "$$

$$- 10.808,5 \quad * 10802,0$$

$$: 1877 = 86164,08711$$

$$86164,09057 = * 6.5 \text{ sek zu früh}$$

Apr. 10
 May 31
 Juli 5
 46

20.4.94 20 16 48,5 } Diff. 14633,5 : 62 = 236,0242
 21.6.94 16 12 55

bei * 17 13 02,1

$$62 \times 86400$$

$$- 14633,5 \quad * 14626,4$$

$$: 62 = 86163,9758$$

$$86164,09032 = * 7.1 \text{ sek zu früh}$$

Apr. 10
 May 31
 Juli 21
 62

13.1 02 43 02

20 2 15 30

24 1 59 ~~46~~ 45

5.2 01 12 ~~34~~ 33

14 00 37 10

19 17 ~~30~~ 1

5 x 365 x 8640

- 60 x "

+ 17275
- 2832 * (5.2.99)

: 1770 = 86164,09209

- * 2834,8 = 86164,09051

5.2.99

- 2,8

4.94 21 11 50 }
22.3.99 22 11 40 } 3590

5 x 365 x 8640

+ Schalttag "
- 15 x "

+ 3590

: 86164,09054 = 1816
um 2 die Tage zu ermittelt

ergibt 86164,0914100

bei 3544,4 = 86164,09053

= 1,6 s zu spät

20.4.94 20 16 49.5
 19.4.99 20 21 34.5 Diff 296.0

$$\begin{aligned}
 & 5 \times 365 \times 96400 \\
 & + 296.0 \\
 \hline
 & : 1830 = \\
 & 96164,09077
 \end{aligned}$$

bei + 295.7 (Diff = -0.8 sek = 5 Jahre)

$$= 96164,09055$$

20.4.94 20 16 49.5
 29.4.99 19 42 13 Diff 2075.5

19:42:14.5

$$\begin{aligned}
 & 5 \times 365 \times 96400 \\
 & 10 \times 96400 \\
 & - 2075.5 \\
 \hline
 & : 1840 = \\
 & 96164,09940
 \end{aligned}$$

bei - 2074 = 96164,09022

20.4.94 20:16:49.5
 3.5.99 19:26:29 Diff 3019.5

in da über 5 Jahre
 also 2.5 sek zu früh

$$\begin{aligned}
 & 5 \times 365 \times 96400 \\
 & - 14 \times 96400 \\
 & - 3019.5 \\
 \hline
 & : 1844 = 96164,09921
 \end{aligned}$$

bei 3017 = 96164,09056

9.4.99 21.00.53 }
 30.1.00 01.37.14 } 16581

Va 6.4.94
 bis 30.1.00

Apr. 21
 May 31
 Juni 30
 Juli 31
 Aug. 31
 Sept 30
 Okt 31
 Nov 30
 Dec 31
 Jan 30

296

1834

2130

4 x 3600
 + 37 x 60
 + 14
 - 53

16581

158024.943

+ 295 x 86400

+ 16581

: 2130 = 86164,0957746

bis + 16570 = 86164,09061

ca. 11 sek zu spät

Thank you very much for commenting on my paper "The Mathematical Problem of the Precession-Time Paradox". I am very glad that you have taken the time to review and evaluate my work. Thanks to your critical and objective comments it seems to me that it is necessary to explain a few details a little better. I sense the misconception that most people might have about my "personal quest for exactness" and therefore I must clarify certain points.

The issue is not about small and insignificant fractions of a second, but about the immense time difference of 1223 seconds per revolution period. These 1223 s per year can only exist if a precession of the earth's axis exists. There is, however, absolutely no scientific proof that this enormous time difference does indeed occur in reality. Therefore, it can be concluded that earth's precession cannot be viewed as a physical fact. The slow regression of the fixed stars with respect to earth's equinoctial points must have a different cause.

We seem to agree that the mean rotation time of the earth on its axis is about 23h 56m 4.09 s, or about 86164.091 s relative to the fixed stars. This figure by the way coincides with my measurement of Sirius. Of course, this is a "mean" time based on continuous measurement over a period of 2 years. As a matter of fact, I have observed and measured significant variations in earth's sidereal rotation time from anywhere up to roughly plus minus one second per day. But it is important to remember that all these fluctuations in earth's rotation time average out with each complete period of revolution; i.e. earth's actual orbit time remains nearly constant. It is said to deviate by no more than 0.1 seconds in about 6300 years. As we can see, such a minute difference in time is very insignificant as compared to the time discrepancy of more than 1223 seconds, which should occur due to a precession of the earth's axis.

37

$$\frac{10.18}{14.5} = 12.4 \downarrow$$

| | | |
|--------|----------|-------|
| 6.4.94 | 21 11 50 | } + 5 |
| 6.4.03 | 21 11 55 | |

9 x 365 x 6400
 2 Schaffj
 + 5

$$\begin{array}{r} 3245 \\ \hline 3296 \end{array}$$

: 3294 = 6164,07919

+ 37.6 = 6164,09059

10.4.02 20 55 68 4 } + 1007
 6.4.03 21 11 55 4 }
 19.4.03

361 x 6400

+ 1007

∴ 362 = 6164,10773

≈ 6.3 s zu spät

9.4.99 21 00 53 } + 662
 6.4.03 21 11 55 }

3 x 365 x 6400
 1 Schalttag

362

+ 662

+ 34,2243

∴ 1462 = 6164,08769

falls 12,44 6
 Korrekt.

≈ 4,1 s zu früh

~~50 50 90~~
~~50 50 55~~

24.3.02 21 46 20 } Diff. - 20655
 6.4.03 21 11 55 }

$$365 \times \$6400$$

$$9 \times "$$

$$- 2065$$

$$\div 375 = \$6164,09333$$

≈ 1 sek später

$$\text{Bei } - 2066 = \$6164,09067$$

2.4.02 21 26 40 } Diff. - 445
 6.4.03 21 11 55 }

$$365 \times \$6400$$

$$4 \times "$$

$$- 445$$

$$\div 370 = \$6164,094590$$

$$\text{Bei } - 446 = \$6164,09149$$

11.1.01 02 44 54 } + 295
 10.1.02 02 53 53 }

$$364 \times \$6400$$

$$+ 295$$

$$\div 365 = \$6164,09549$$

≈ 2 sek später

$$\text{Bei } + 293 = \$6164,09041$$

9.4.99 21 00 53 }
 10.4.00 20 54 01 } - 412

$$367 \times 66400$$

$$- 412$$

$$: 368 = 6164,09783$$

≈ 2.75 zu spät

10.4.00 20 54 01 }
 9.4.01 20 58 59 } + 298

$$364 \times 66400$$

$$+ 298$$

$$: 365 = 6164,10411$$

≈ 5 s zu spät

9.4.01 20 58 59 }
 10.4.02 20 55 04 } - 231

$$366 \times 66400$$

$$- 231$$

$$+ 12.4486$$

$$+ 34.2243$$

$$: 367 = 6164,0754$$

≈ 5.6 s zu früh

(falli 12.4486 s) = 6164,04147
 Korrekt.
 ≈ 18 s zu früh

15/4 20:35:31 (36)

10.4.07

20:58:16

| |
|-------|
| 29 |
| 1320 |
| 16 |
| <hr/> |
| 1365 |

| |
|-------|
| 44 |
| 60 |
| <hr/> |
| 104 |
| 1469 |
| <hr/> |
| 1573 |

1365

| | |
|-------------------------------|-----|
| Maximum Weight | 366 |
| Maximum weight (kg) - 33 kg | 1 |
| Maximum weight (lb) - 73 lbs | 5 |
| Maximum weight (kg) - 33 kg | 372 |
| Maximum weight (lb) - 820 lbs | |

$$372 \times \$6400 = 32054400$$

$$370 \times \$6400$$

$$+ \$5035 (+ \$5040) = \$6164,086$$

$$\$5035$$

$$= 372 = \$6164,0725\$ (= \approx 5s \text{ früher})$$

23.4.06

200605

$$29:26 = 1766$$

15.4.08

203531

+ Schallong

$$2 \times 365 = 723 \times \$6400 = 62467200$$

$$- 7$$

1766

$$\$6164,09054$$

$$62464966 : 725 = \$6164,09103$$

in 725 Tagen 0,35s zu spät