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how people get

time dilation

wrong

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In physics,
spacetime is any
mathematical

model which
fuses the three
dimensions of
space and the
one dimension of
time into a
single four-
dimensional
manifold.

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Relativity diagrams can be used to visualize relativistic effects, such as why different observers perceive where and when events occur differently..

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these two

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eliminates the y

and z (since

they are equal

to their primed

counterparts),

leaving us with:

$$c^2 t^2 - x^2 = c^2$$

$$c^2 t_0^2 - x_0^2 = c^2$$

$$c^2 t^2 - x^2 = c^2$$

$$(At + Bx)^2 - A^2$$

$$(x - vt)^2 = c^2$$

$$(A^2 t^2 + B^2 x$$

$$^2 + 2 ABxt) - A^2$$

$$(x^2 + v^2 t^2 +$$

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$$2 \quad vxt) = A \quad 2 \quad c \quad 2$$

$$t \quad 2 + b \quad 2 \quad c \quad 2 \quad x$$

$$2 + 2 \quad ABC \quad 2 \quad xt - A$$

$$2 \quad x \quad 2 - A \quad 2 \quad v \quad 2 \quad t$$

$$2 - 2 \quad A \quad 2 \quad vxt \quad \text{We}$$

$$\text{equate like}$$

$$\text{coefficients: } c$$

$$2 = A \quad 2 \quad c \quad 2 - A \quad 2$$

$$v \quad 2 \quad c \quad 2 \quad c \quad 2 - v \quad 2$$

$$= A \quad 2 \quad 1 \quad 1 - v \quad 2 \quad c$$

$$2 = A \quad 2 \quad 1 \quad q \quad 1 - v$$

$$2 \quad c \quad 2 = A \quad \equiv \quad \gamma - 1$$

$$= b \quad 2 \quad c \quad 2 - A \quad 2$$

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Numbers $c =$

$2.99792458 \times 10^8 \text{ m}$

s^{-1} (Exact speed

of light.) $c^2 =$

8.98755178736817

$64 \times 10^{16} \text{ m}^2 \text{ s}^{-2}$

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(Exact!) $G =$

$6.67384 \times 10^{-11} \text{ m}^3$

$\text{kg}^{-1} \text{ s}^{-2}$

(Newton's G .) M

$= 1.98855 \times 10^{30}$

kg (Mass of the

Sun.) $r = 6.955$

$\times 10^8 \text{ m}$ (Radius of

the Sun.) $GM =$

1.32712440018

$\times 10^{20} \text{ m}^3 \text{ s}^{-2}$

(Solar

gravitational

parameter; more

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accurate than

either G or M

separately.) $2GM$

$=c^2 =$

$2:9532500765 \times 10^3$

m (Solar

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exact solution
is a Lorentzian
manifold
equipped with
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of ordinary
matter, such as
a fluid, or
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The geodesic
equation is: d^2

$x^\mu ds^2 + \Gamma^\mu$

$\alpha\beta dx^\alpha ds d$

$x^\beta ds = 0$,

$\{\displaystyle$

$\{d^2\}x^{\{\mu\}}$

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$\frac{d^2x^\alpha}{ds^2} + \Gamma^\alpha_{\mu\nu} \frac{dx^\mu}{ds} \frac{dx^\nu}{ds} = 0,$ where

$\Gamma^\alpha_{\mu\nu} = \frac{1}{2} g^{\alpha\lambda} \left(\frac{\partial g_{\lambda\mu}}{\partial x^\nu} + \frac{\partial g_{\lambda\nu}}{\partial x^\mu} - \frac{\partial g_{\mu\nu}}{\partial x^\lambda} \right)$

$\frac{dx^\alpha}{ds}$

$\frac{dx^\beta}{ds}$

$= 0,$ where.

s.

s is a scalar

parameter of

motion (e.g. the

proper time),

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