

# Re: Eric Gisse doesn't know the basics of Relativity

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- *From:* "guskz@xxxxxxxxxxxx" <guskz@xxxxxxxxxxxx>
  - *Date:* Sun, 05 Aug 2007 09:02:53 -0700
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On Aug 5, 11:12 am, "T.M. Sommers" <t...@xxxxxx> wrote:

gu...@xxxxxxxxxxxx wrote:

N.O.V.I.C.E. (or idiot) Eric Gisse doesn't know that Temperature  
\*MUST\* be a Lorentz invariant scalar.

Water would be a vapor or ice in other reference frames otherwise  
IDIOT if Temperature did not remain invariant.

Temperature is not invariant. It transforms as

$$T' = T * (1 - v^2/c^2)^{(1/2)}$$

Come on. Rest Mass is a Lorentz invariant scalar.

Never heard of invariant mass,  $M' = \gamma M$ .

M remains invariant.

where T is the temperature in the rest frame. See R.K. Parthia,  
\_Statistical Mechanics\_, p. 152 ff. for a discussion.

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Thomas M. Sommers --- t...@xxxxxx --- AB2SB