

as.slu.edu , You have made comments that Momentum is not Conserved in my PAPER. It is not CORRECT. It is explained

# Re: rpassen@eas.slu.edu , You have made comments that Momentum is not Conserved in my PAPER. It is not CORRECT. It is explained in 100 Years of E=mc2

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*Source:* <http://sci.tech-archive.net/Archive/sci.astro/2006-10/msg00004.html>

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- *From:* "AJAY SHARMA" <[devianju@xxxxxxxx](mailto:devianju@xxxxxxxx)>
  - *Date:* 2 Oct 2006 17:42:58 -0700
- 

CeeBee wrote:

"AJAY SHARMA" <[devianju@xxxxxxxx](mailto:devianju@xxxxxxxx)> wrote in sci.astro:

<snip spam>

So you think constantly changing your e-mail to circumvent spamfilters will succeed. Good. Keep it that way.

At least it makes clear what you are. A rotten spammer. Get lost, idiot.

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CeeBee

\*\*\* Democracy is not a spectator sport \*\*\*

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Robert Pasken  
Department of Earth and Atmospheric Sciences  
Saint Louis University  
3507 Laclede Avenue  
St.Louis, MO 63103  
rpassen@xxxxxxxxxxxx , You have made comments that Momentum is not Conserved in my PAPER. It is not CORRECT. It is explained in 100 Years of E=mc2

rpassen@xxxxxxxxxxxx  
See how Momentum is conserved in my paper. All references are given in the end.  
Part I  
General meaning , explained in 11th class Physics.

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Let the body of mass 10kg emits light energy in two waves in visible region equal to  $7.9512 \times 10^{-19}$  J, this energy corresponds to TWO light waves in visible region having wavelength  $5000 \text{ \AA}$  or energy,  $2hc/\lambda$  or  $7.9512 \times 10^{-19}$  J.

Let towards the observer the body emits light energy 0.5001L i.e.  $3.97639512 \times 10^{-19}$  J i.e. will have momentum ( $p_1 = E/c$ )  $1.32546504 \times 10^{-27}$  m/s.

Secondly, the body emits light wave of energy 0.4999L i.e.  $3.97480488 \times 10^{-19}$  J, away from the observer ( $\theta = 180^\circ$ ) i.e. will have momentum ( $p_2 = E/c$ )  $1.32493496 \times 10^{-27}$  m/s. Let us assume that when the body emits light waves of energy and moves (if it actually does) with velocity  $V_b$ , then according to law of conservation of momentum we get

$$0 = p_1 + p_2 + M_b V_b \text{ or } V_b = -(p_1 + p_2) / M_b = .3 \times 10^{-32} \text{ m/s (2)}$$

$$0 = p_1 - p_2 + M_b V_b \text{ or } V_b = -(p_1 - p_2) / M_b = .3 \times 10^{-32} \text{ m/s (3)}$$

Thus conservation of momentum requires that body should move with velocity  $.3 \times 10^{-32}$  m/s opposite to observer. Thus body will tend to move with velocity  $5.3 \times 10^{-32}$  m/s ( away from the observer) which is immeasurably small by all means, hence the body remains at rest. Due to this uniform relative velocity  $v$  of the system ( $\theta, \lambda, \nu$ ) will not change, if body moves then  $v$  will vary accordingly.

=====Einstein s Sep 1905 paper=====

The first and basic equation in Einstein s paper is

$$l^* = l \{ 1 - v/c \cos \theta \} / [1 - v^2/c^2] \text{ (1)}$$

In eq.(1)  $v$  is the relative velocity between light emitting body and the measuring system i.e. system ( $\theta, \lambda, \nu$ ). If body moves after emission with velocity  $v$  away from the observer, then relative velocity will be  $v+v$  (say  $V$ ). Thus in this case eq.(1) becomes

$$l^* = l \{ 1 - (v+v) \cos \theta/c \} / [1 - (v+v)^2/c^2] \text{ (1a)}$$

The rest of the calculations remain the same. Thus Einstein s derivation is also valid if the body moves, Einstein has considered the simplest case when velocity  $v$  is zero ( $V = v+v = v$ ), which is special case. Also experimentally the law of inter conversion of mass energy holds good in all possible cases.

Hence you cannot say that LAW OF CONSERVATION OF MOEMTUM IS NOT TAKEN IN ACCOUNT IN MY PAPER.

It is your MISPERCEPTION.

AJAY SHARMA 2ND Oct 2006

References of Einstein s work

.. A.Einstein, Annalen der Physik 18 (1905) 639-641.

.. DOES THE INERTIA OF A BODY DEPEND UPON ITS ENERGY-CONTENT?

Weblink is

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Einstein s 27 Sep 1905 paper available at  
[http://www.fourmilab.ch/etexts/einstein/E\\_mc2/www/](http://www.fourmilab.ch/etexts/einstein/E_mc2/www/)

## PartII

References of Ajay Sharma s work

My work is available at

A. Sharma, Physics Essays, 17 (2004) 195–222.

The Origin of Generalized Mass–Energy Equation  $DE = Ac^2 DM$ ; and its applications in General physics and Cosmology .

[http://www.burningbrain.org/pdf/ajaysharma\\_einstein.pdf](http://www.burningbrain.org/pdf/ajaysharma_einstein.pdf)

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## International Conferences

It has been accepted for presentation over 55 conferences all over the world

-----few of them

1. Sharma, A. presented in 19th International Conference on the Applications of Accelerators in Research and Industry , 20–25 August , 2006 Fort Worth Texas, USA
2. A. Sharma, Abstract Book 38th European Group of Atomic Systems ( Euro physics Conference) Isachia (Naples) Italy (2006) 53.
3. A. Sharma , Abstract Book , A Century After Einstein Physics 2005 , 10–14 April 2005 ( Organizer Institute of Physics , Bristol ) University of Warwick , ENGLAND
4. A. Sharma presented in 5th British gravity Conference , OXFORD ENGLAND
5. A. Sharma,. Proc. Int. Conf. on Computational Methods in Sciences and Engineering 2003 World Scientific Co. USA , (2003) 585.
6. A. Sharma, Proc. Int. Conf. on Number, Time, Relativity United Physical Society of Russian Federation, Moscow , (2004) 81 plus more

## Journals

This paper

The Origin of Generalized Mass–Energy Equation  $DE = Ac^2 DM$ ; and its applications in General physics and Cosmology .

is published in journal

Physics Essays , CANADA

[www.physicsessays.com](http://www.physicsessays.com)

The paper

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The past ,present and future of  $E=mc^2$   
will be published in 2007 Galilean Electrodynamics, Massachusetts,  
USA.

In parts it is published in various others journals.

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Book 100 Years of  $E=mc^2$

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