

Re: You have made comments that Momentum is not Conserved in my PAPER. It is not CORRECT

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Source: <http://sci.tech-archive.net/Archive/sci.physics.relativity/2006-10/msg00208.html>

- *From:* "AJAY SHARMA" <physics.einstein@xxxxxxxxx>
 - *Date:* 3 Oct 2006 18:29:21 -0700
-

ajay2244 wrote:

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

rpasken@xxxxxxxxxxxxxxxxxxxx Pasken

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See how Momentum is conserved in my paper. All references are given in the end.

Part I

General meaning , explained in 11th class Physics.

The law of momentum conservation,

* In an isolated system, the momentum of system must be conserved.*

Mathematically implies that

Initial Momentum = Final Momentum

$mu = mv$ (1)

As mass remains same in classical mechanics.

So $u = v$

which is Newton's First law of motion.

Application of momentum conservation.

When body emits energy (in this cases light energy)

then it recoils .Thus it is used to calculate the velocity of recoil.

It can be applied to following two cases.

----- Light bullet fired from TOY Gun, system remains at rest.

(body does not recoil with noticeable velocity, it tends to recoil)

The velocity can be calculated but may be of the order of

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to move with velocity 5.3×10^{-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 ($\#958;$, $\#951;$, $\#950;$) 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

$$l^* = l \{ 1 - v/c \cos \theta \} / \sqrt{1 - v^2/c^2} \quad (1)$$

In eq.(1) v is the relative velocity between light emitting body and the measuring system i.e. system ($\#958;$, $\#951;$, $\#950;$). 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

$$l^* = l \{ 1 - (v+v') \cos \theta \} / \sqrt{1 - (v+v')^2/c^2} \quad (1a)$$

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

Einstein's 27 Sep 1905 paper available at

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 $E = Ac^2 + M$; and its applications in General physics and Cosmology".

http://www.burningbrain.org/pdf/ajaysharma_einstein.pdf

For details

<http://tinyurl.com/hbnv9>

International Conferences

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

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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 $E = \sqrt{M^2 + p^2}c^2$ and its applications in General physics and Cosmology".

is published in journal

Physics Essays , CANADA

www.physicsessays.com

The paper

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.

Book 100 Years of $E=mc^2$

For details

<http://tinyurl.com/hbnv9>

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