

## Re: nuclei role in thermodynamics/energy transport?

**Source:** <http://sci.tech-archive.net/Archive/sci.physics/2004-12/8509.html>

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**From:** Tom Potter (*tdp\_at\_earthlink.net*)

**Date:** 12/23/04

Date: Thu, 23 Dec 2004 21:22:04 +0800

"Creighton Hogg" <wchogg@hep.wisc.edu> wrote in message  
news:Pine.LNX.4.44.0412220734530.32063-100000@dill.hep.wisc.edu...

>

> *On Wed, 22 Dec 2004, Tom Potter wrote:*

>

>> *"Creighton Hogg" <wchogg@hep.wisc.edu> wrote in message*

>> *news:Pine.LNX.4.44.0412190945360.8346-100000@dill.hep.wisc.edu...*

>>>

>>> *On Sun, 19 Dec 2004, Tom Potter wrote:*

>>>

>>>> *"Creighton Hogg" <wchogg@hep.wisc.edu> wrote in message*

>>>> *news:Pine.LNX.4.44.0412181057100.2994-100000@dill.hep.wisc.edu...*

>>>>

>>>>> *On Sat, 18 Dec 2004, Tom Potter wrote:*

>>>>>> *energy = charge \* voltage*

>>>>>> *mass = energy / velocity(light)^2*

>>>>>>

>>>>>> *The energy in your two lines are different things.*

>>>>>> *The first line is the relation between a change in potential*

*energy*

>> *and*

>>>>> *charge's movement through a voltage difference*

>>>>> *The second relation, commonly, would be read as the relationship*

>> *between*

>>>>> *rest mass and rest energy has little to do with the first*

*relation.*

>> *There*

>>>>> *is some ambiguity if you mean rest mass or "relativistic mass".*

*In*

>>>>> *particle physics, we pretty much only talk about rest mass.*

>>>>> *In any case, there is no obvious connection between the two.*

*Indeed,*

>> *a*

>>>>> *direct relationship between charge and mass would be a bit*

*difficult*

sci.physics: Re: nuclei role in thermodynamics/energy transport?

> > *to*

> > > > *explain given the distribution of masses betw*