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The Stowe Unitary System
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Thread rating:
<ul> <li>For the first time I have been able to define all fundamental constants in terms of basic medium parameters, including the gravitational constant G. Further, G is, within this system, seamlessly integrated to all others, fitting into a unified system.</li> <li>The key to this system's definition is the realization that charge is fundamentally a result AND the measure of the compressibility of</li> </ul>
Maxwell's aether. See: <a href="http://www.mountainman.com.au/charge_ps.htm">http://www.mountainman.com.au/charge_ps.htm</a> for futher details on this.
I have posted an overview in the past and will repeat it here below. (If interested, do a Google Groups Search on the exact phrase "Stowe Units")
Quantity SI Conversion Factor to (Stowe Units)
Lengthmeter (m)1meter(m)MassKilogram (kg)1Kilogram (kg)TimeSecond (sec)1second (sec)ForceNewton (Nt)1kg-m/sec^2EnergyJoules (J)1kg-m/2/sec^2PowerWatts1kg-m/2/sec^3Action[h] (J-sec)1kg-m/2/secPermetivitty[z] (Q^2/kg-m'3)1kg/m^3 {1}Permeability[u] (kg-m-sec^2/Q^2)1m-sec^2/kg {2}Charge[q] (Coulomb)1kg/secBoltzmann's[k] (J/°K)1m-secCurrent[l] (Amp)1kg/secBoltzmann's[k] (J/°K)1m-secCurrent[l] (Amp)1kg/sec/2Electric Field [E]1m/2/sec {3}Displacement[D]1kg/m^2-secResistance[R] (Ohms)1m²-sec/kgCapacitance[C]1kg/m²Magnetic Field [H] (Henries)1m²-sec/2/kgTemperature[°K] (Kelvin)1kg-m/sec^3
<ul> <li>{1} - Medium density</li> <li>{2} - Medium modulus</li> <li>{3} - Medium Kinematic Viscosity</li> </ul>
The basic physical quantities in this system are the medium properties of, momentum quanta [ß], characteristic interaction length quanta [L], the root mean speed [c], and a mass attenuation coefficient [¿].
Their values are,

ß = ~5.154664E-27 kg-m/sec

L = ~6.430917E-08 m ¿ = ~3.144609E-06 m^2/kg c = ~2.997925E+08 m/sec

There are two dimensionless factors also. These are shared with the standard systems of measure as,

Now to the fundamental constants. I'll now show that h, z, u, k, q, G easily fall out of the above.

```
h ~= 2ßL
q ~= 2ß/L
k ~= L^2/c
u ~= áL^3/ßc
z ~= ß/áL^3c
G ~= (áßc/2piL^3)¿^2
```

Note rounding to six significant digits in the above numeric definitions can affect the results slightly.

Paul Stowe

	Reply to this Message
□ Uncle AI - 05 Feb 2005 17:07 GMT	K 🛃
<ul> <li>For the first time I have been able to define all fundamental constants</li> <li>in terms of basic medium parameters, including the gravitational [quoted text clipped - 4 lines]</li> <li>fundamentally a result AND the measure of the compressibility of</li> <li>Maxwell's aether.</li> <li>[snip crap]</li> </ul>	
Physics Today 57(7) 40 (2004) http://physicstoday.org/vol-57/iss-7/p40.shtml No aether	
http://fsweb.berry.edu/academic/mans/clane/ http://physicsweb.org/articles/world/17/3/7 No Lorentz violation	
Michelson-Morley experiments (to 10 <sup>(-8)</sup> in 1887 and 1.7x10 <sup>(-15)</sup> in 2002) Kennedy-Thorndyke experiments Ives-Stilwell experiments Hughes-Drever experiments etc.	
	Reply to this Message
■ Paul Stowe - 05 Feb 2005 18:24 GMT	K L
>> For the first time I have been able to define all fundamental constants >> in terms of basic medium parameters, including the gravitational [quoted text clipped - 8 lines] > <u>http://physicstoday.org/vol-57/iss-7/p40.shtml</u> > No aether	
Hey Bozo, Maxwell's aether WAS what lead TO LCR. See Lorentz 1904, Einstein 1905 etc.	

> <u>http://fsweb.berry.edu/academic/mans/clane/</u> > <u>http://physicsweb.org/articles/world/17/3/7</u> > No Lorentz violation	
BFD! That certainly does NOT invalidate Maxwell!	
> Michelson-Morley experiments (to $10^{-8}$ ) in 1887 and $1.7x10^{-15}$ ) in > 2002) Kennedy-Thorndyke experiments Ives-Stilwell experiments > Hughes-Drever experiments etc.	
Irrelevant to the issue!	
The system stands or falls solely based upon its internal continuity AND the ability to match & predict relationships both known or unknown.	
Your CRAP above isn't even on the radar scope of this particular topic!	
Paul Stowe	
	Reply to this Message
<b>■ Bilge</b> - 05 Feb 2005 18:43 GMT	K 🚹 🖳
<ul> <li>Paul Stowe:</li> <li>For the first time I have been able to define all fundamental constants</li> <li>in terms of basic medium parameters, including the gravitational</li> <li>constant G. Further, G is, within this system, seamlessly integrated</li> <li>to all others, fitting into a unified system.</li> </ul> What do units have to do with physics? You've managed to	
<ul> <li>The key to this system's definition is the realization that charge is</li> <li>fundamentally a result AND the measure of the compressibility of [auoted text clipped - 63 lines]</li> </ul>	
> > Paul Stowe	
	Reply to this Message
□ Paul Stowe - 06 Feb 2005 16:06 GMT	<b>I</b>
> Paul Stowe: > For the first time I have been able to define all fundamental constants [quoted text clipped - 69 lines]	
> What do units have to do with physics?	
I would not expect an Idiot-Savant like you to figure that out	
> You've managed to take two fundamental constants, $\alpha$ and G, and > rewrite them as six.	
OK, then show us how to get Boltzmann's Constant from just alpha & G. :)	
Paul Stowe	
	Reply to this Message
■ Morituri- -Max - 06 Feb 2005 17:37 GMT	K 🖳
>> You've managed to take two fundamental constants, $\alpha$ and G, and >> rewrite them as six.	



very clearly showed, Quantity SI Conversion Factor to (Stowe Units) [...] Boltzmann's [k] (J/°K) 1 m-sec [...] {1} - Medium density {2} - Medium modulus {3} - Medium Kinematic Viscosity The basic physical quantities in this system are the medium properties of, momentum quanta [ß], characteristic interaction length quanta [L], the root mean speed [c], and a mass attenuation coefficient [¿]. Their values are, ß = ~5.154664E-27 kg-m/sec L = ~6.430917E-08 m ¿ = ~3.144609E-06 m^2/kg c = ~2.997925E+08 m/sec There are two dimensionless factors also. These are shared with the standard systems of measure as, á = ~7.297353E-03 (Fine Structure Constant) = ~1.001159E+00 (Electron Magnetic Anomaly) Now to the fundamental constants. I'll now show that h, z, u, k, q, G easily fall out of the above. Λ [...] k ~= L^2/c [...] So, any one with an ounce of integrity would have immediately said something like, Oh, I'm sorry, I was wrong. Apparently you DID define Boltzmann's Constant. I jumped to rash & invalid conclusions WITHOUT ACTUALLY LOOKING at what you posted... Is this clear enough? Paul Stowe 🐙 Reply to this Message ■ Bilge - 07 Feb 2005 21:45 GMT Κ 🖫 Paul Stowe: >>> BTW, I wonder if I'll ever get a 'straight answer' back, or, >>> is it do as I say, and not as I do...? [quoted text clipped - 51 lines]  $k \sim = L^2/c$ >> [...] That means you have 4 constants which are superfluous and have to cancel in any physical result. Don't ever accuse anyone of mistaking math for physics. 🐙 Reply to this Message

■ Bilge - 06 Feb 2005 21:42 GMT	K 🚹 ⊾
Paul Stowe:	
>On Sat, 05 Feb 2005 18:43:52 GMT,	
>dubious@radioactivex.lebesque-al.net (Bilge)	
>> What do units have to do with physics?	
>	
> I would not expect an Idiot-Savant like you to figure that out	
I take that to mean you have no answer, as usual	
Take that to mean you have no answer, as usual.	
>> You've managed to take two fundamental constants \alpha and C and	
>> 100 ve managed to take two jundamental constants, salpha and 0, and	
>> rewrite them as six.	
$\sum_{i=1}^{n} \left( \sum_{i=1}^{n} \sum$	
> OK, then show us now to get Boltzmann's Constant from just dipha & G. :)	
I must have missed boltzmann's constant, so make that, ``You've	
managed to take three fundamental constants, \alpha, G and k, and	
double the number.	
	Reply to this Message
Paul Stowe - 06 Feb 2005 22:08 GMT	K 🛌
> Paul Stowe ·	
>>On Sat 05 Feb 2005 18.43.52 GMT	
[auoted text clinned - 12 lines]	
[quoted text clipped - 12 times]	
> I must have missed holtzmann's constant	
> > I must have missed boltzmann's constant,	
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That's fine but, since an Amp => kg/sec^2, Tesla is dimensionless.

IOW,

kg sec^2 ----- x ----- => unitless sec^2 kg

> in SI units? Anyone can easily see that the conversion factors can't be 1.

Further, since 1 Coulomb = 1 kg/sec, conversion is unity & dimensionless.

I could, of course have said Tesla, but to me it is needless confusion.

As I've mentioned before, all I've really done, in terms of SI, is redefine the unit Coulomb as kg/sec. The rest, ß, L, c all come from standard kinetic theory. So, wherever Coulomb appears in SI, replace the unit with kg/sec, that's it. Since Coulomb is arbitrary, doing so will NOT change any internal consistencies. Thus the Stowe Unitary System is as consistent as the standard SI it enhances.

Paul Stowe

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