

Re: Please help me with the verification of this law

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Source: <http://sci.tech--archive.net/Archive/sci.physics/2007-05/msg01790.html>

- *From:* The_Man <me_so_horneeeee@xxxxxxxxxx>
 - *Date:* 18 May 2007 00:08:36 -0700
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On May 13, 2:06 pm, Mitchell Jones <mjo...@xxxxxxxxxxxxxxxxxx> wrote:

In article <1179034942.022503.115...@xx>, "Autymn D. C." <lysde...@xxxxxxxxxxxxxxxxxx> wrote:

[snip]

There is no continuum

***{Hi Aut. :-)} For the record, the term "continuity" used in the phrase "principle of continuity" refers to the continuity of motion—i.e., to the fact that there are no breaks in the pathway followed by an object in motion: no points at which the path ends; no points at which it begins.

Thanks for explaining your "principle of continuity" further. In this formulation, it is even more demonstrably false than in the PREVIOUS formulation. Solution of the Schroedinger equation for the hydrogen atom (a completely solvable problem) yields s, p, d, f, etc orbitals.

All orbitals but s have angular nodes – locations where the electron can NEVER be. Yet the electron moves from one side of the node to the other, without ever being in the node. All the s orbital electrons have a finite probability of being the nucleus (this is where we get the "hyperfine" intereaction). All s orbitals except 1s have RADIAL nodes, so that the electron can be closer than a certain distance from the nucleus, or greater, but not "in between" (so to speak).

This is an open-and-shut case. Extensive experimentation says you're completely wrong.

Multiple pathways can merge together, in cases where an object is assembled from preexisting parts, and single pathways can split into multiple threads, in cases where objects are disassembled into parts; but the pathways themselves have no beginning and no end. That's what I

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mean when I say that "no thing may come into existence out of nothing or vanish into nothing."

Except, of course, for photons, particle–antiparticle pair, neutrinos, etc....

The principle of continuity, in short, is a statement about the paths through space taken by objects in motion, and implies that the universe has always existed, and will always exist. Existents within it can change their forms according to the physical laws that define the nature of things, but cannot be created or destroyed. --MJ}***

; however there is a discretum of aetiologies with partial states.

to wit: the collapse of the entire structure of human knowledge—it follows that the principle of continuity must be true.
Q.E.D.

Wrong. QM tells everything we can know about the world on a subatomic level.

<http://wikipedia.org/wiki/SED>

***{I think the link you wanted was http://en.wikipedia.org/wiki/Stochastic_electrodynamics. Using "SED" as the search argument leads to multiple hits, and generates a "disambiguation" page. It's a good link, in that it shows that there are serious people around who are trying to approach "QM" problems from a rationalist perspective, and, in particular, that such an approach requires an awareness that the "vacuum" is, in fact, filled with material capable of functioning as the sources of things that are sometimes falsely claimed to have popped into and out of existence.
--MJ}***

–Aut

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If I seem to be ignoring you, consider the possibility
that you are in my killfile. --MJ