

Re: Quantum theory: A resonance effect?

Source: <http://sci.tech-archive.net/Archive/sci.physics/2005-12/msg00181.html>

- *From:* "Ron Baker, Pluralitas!" <stoshu@xxxxxxxxxxxxxxxxxxxx>
 - *Date:* Fri, 02 Dec 2005 17:03:04 GMT
-

"slehar" <slehar@xxxxxxxxxx> wrote in message
<news:1133537315.903073.253980@xx>

>> No offense but that seems to me to be a bit of
>> an over generalization.

>
> What exactly is the over-generalization? The notion that the world is
> entirely analog, and the only thing that makes it discrete is
> resonance?

Well you silently snipped the context, but, yes, that
is a generalization, an opinion, an aesthetic observation.
It is kind of like saying 'Everything is blue except that which
is a different color.'

>
> Think about it. There are two kinds of events or happenings in the
> universe: cataclysmic chaotic unpredictable unique events, and periodic
> regular repeating events. Every one of the latter that I can think of
> are examples of resonance of one sort or another.
>
> The most prominent example of the former is the Big Bang itself--a
> single, unique, unitary event that could never have possibly been
> predicted (if anything existed before it to make that prediction), and
> it will never happen again, or at least if it does, it must also come
> as a complete un-predictable surprise.
>
> But that cataclysmic creational thunderclap left countless billions of
> echos in its wake, in the form of particles, which are standing-wave
> resonances of that primordial energy resonating round and round at
> various harmonic frequencies, and the microwave background radiation,
> which actually only *peaks* at microwave frequency, but leaves traces
> across the spectrum at different frequencies, and every one of these
> waves is itself a kind of oscillatory resonance, except in the form of
> travelling waves, rather than standing waves. All that remains of the
> Big Bang today is the resonance echos of that singular event, like the
> waves in a pond after a stone is thrown in.

I'd say calling a galaxy analogous to a wave in a pond is a whopper

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of a generalization.

- >
- > The particles from that creation interact in one of two ways: either
- > they collide with each other randomly and unpredictably, then move on
- > for an unpredictable interval till the next collision, or they fall
- > into a periodic resonant relationship, from protons and electrons that
- > merge into neutrons, forming a larger standing wave resonance, to
- > electron orbitals in periodic patterns around the atomic nucleus, to
- > atoms that merge into molecules with their own characteristic larger
- > resonances, to agglomerations of particles from dust grains to
- > snowballs to asteroids to planets to stars, which admittedly are not so
- > resonant, but more irregular.

Yup. Everything is resonant except that which is not.

- >
- > A planet in orbit around a sun is another periodic resonance, like a
- > pendulum swinging in circles instead of back and forth, with a
- > continuous range of elliptical rotations in between. The resonance of
- > planetary orbits is seen most clearly during their formation from the
- > planetary disk, with countless rings and spokes, like those now seen in
- > the rings of Saturn, that eventually condense into near-circular orbits
- > spaced at harmonic intervals due to resonance effects between planets
- > at different orbital radii. Everything on earth that is regular and
- > predictable, from the daily rotation of day and night, to the seasonal
- > variation, to the annual cycle, to the cycle of ice ages, is again a
- > resonance phenomenon. All else is chaotic and random and unpredictable.

Yup. Everything is resonant except that which is not.

- >
- >
- > Ok, I'll admit I'm taking it a bit too far. It is perhaps an
- > over-generalization, there are other patterns which are not exactly
- > resonance, for example the periodic pattern of a DNA molecule is not
- > itself a resonance effect, even though its component atoms and
- > molecules are each tiny resonances. But there is a kernel of truth
- > there, that suggests that there is something truly magical and
- > creational about the principle of resonance, it is the only physical

That is aesthetics, opinion, faith.

- > principle that postpones the steady advance of entropy, and
- > spontaneously creates periodic order out of chaotic disorder.

Clearly you don't understand thermodynamics.
(Nor chaos theory.)

>

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- >>> I have proposed ... it is the resonance principle of our brains
- >>> that explains our special affinity to music
- >
- >> It seems more likely to me that various things in nature that
- >> have bearing on survival also produce sounds (lions roar, rumble
- >> of rocks falling, buzz of honey bees, baby's cry). Evolution has
- >> selected us to have some programmed responses (mental states/feeling)
- >> to sounds. Music, as all sound, stimulates those same circuits
- >> eliciting
- >> a mixture of the associated states/feelings.
- >
- > Well think about the phenomenon of *consonance*, i.e. which notes sound
- > good with which other notes. When the frequencies of notes f1 & f2 are
- > related by harmonic intervals (octaves, fifths, thirds,...) then they
- > are perceived to be consonant, they sound good together. There is
- > nothing in nature that has those relations except for manifestations of
- > resonance. Then think of periodicity—when notes form periodic
- > patterns, not just simple alternations CGCGCGCG..., but compound
- > patterns, CEGECEGE..., CEEGEECEE GEE, and compound hierarchical
- > patterns, CECEGEGEADADGEGE, with compound hierarchies of compound
- > hierarchies in endless symmetrical and periodic patterns, stepping on
- > harmonically related frequencies, THOSE are the melodies that we find
- > aesthetically appealing, and yet nothing in nature has those kinds of
- > patterns except for harmonic resonances of various sorts.

But here, on the other hand, you say that nothing is resonant except that which is.

- > I claim that
- > this is no accident,

Who did it then?

- > but a manifestation of the fact that resonance is
- > the principle of pattern formation and detection in the brain.

But according to you everything is resonance, so the above doesn't seem to say much.

- >
- > Take a look at this brief cartoon presentation of the magic of harmonic
- > resonance and how it operates in biology and in the brain.
- >
- > <http://cns-alumni.bu.edu/~slehar/HRez/HRez.html>
- >
- > (this is work in progress, to be extended when I have the time)

I look forward to the calculations and controlled experiments.

- >
- > Steve Lehar

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>

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rb

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• *Follow-Ups:*

- ◆ **Re: Quantum theory: A resonance effect?**
◇ *From: slehar*

• *References:*

- ◆ **Re: Quantum theory: A resonance effect?**
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