

# Re: Bohr's Atom still number one

---

*Source:* <http://sci.tech-archive.net/Archive/sci.physics.relativity/2007-05/msg01556.html>

---

- *From:* "guskz@xxxxxxxxxxxx" <guskz@xxxxxxxxxxxx>
  - *Date:* 9 May 2007 22:03:00 -0700
- 

On May 9, 5:32 am, bz <bz+...@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

"g...@xxxxxxxxxxxx" <g...@xxxxxxxxxxxx> wrote  
[innews:1178686901.552915.67220@xx](mailto:innews:1178686901.552915.67220@xx):

On May 8, 3:40 pm, bz <bz+...@xxxxxxxxxxxxxxxxxxxxxxxx> wrote:

The explanation given at <http://bethe.cornell.edu/>  
(if I understood it correctly) is that 'not even the electrons  
know  
where they are' to a high enough accuracy to be able to  
'accelerate'  
while they are in their 'orbitals'.

Their location is so uncertain that the probability plots ARE  
the  
correct 'picture'.

They say you can know when you know their location, you can't know  
their velocity ....and vice-versa?

'they' are only approximately correct.

(and/or the more you know their location, the less you know their  
velocity)

In order for electrons to 'orbit', the electrons must know their own

Re: Bohr's Atom still number one

location and their own velocity, otherwise they can not follow the path of an orbit, but they can not. Therefore they do not orbit.

Science fiction destroying the rule that ONLY when electrons change  
\*\*\*\*\*velocity\*\*\*\*\* (only when they accelerate or decelerate) do  
photons radiate.  
Thus velocity = orbit.

They ain't static. If they aint static they got an orbit and quantum shells.

---

But from what you wrote above it's saying only possible to know the PROBABILITY of their location....this is conflicting from the definition I wrote above??

Follow the reference given. Listen to the lectures.

—  
bz

please pardon my infinite ignorance, the set-of-things-I-do-not-know is an infinite set.

bz+...@xxxxxxxxxxxxxxxxxxxx remove ch100-5 to avoid spam trap