

Re: Can anyone draw a simulation of two orbiting planets?

## Re: Can anyone draw a simulation of two orbiting planets?

---

*Source:* <http://sci.tech-archive.net/Archive/sci.physics.relativity/2007-09/msg00200.html>

---

- *From:* Randy Poe <poespam-trap@xxxxxxxx>
  - *Date:* Tue, 04 Sep 2007 06:24:49 -0700
- 

On Sep 4, 12:57 am, "gu...@xxxxxxxx" <gu...@xxxxxxxx> wrote:

On Sep 3, 6:43 pm, Randy Poe <poespam-t...@xxxxxxxx> wrote:

On Sep 3, 5:18 pm, "gu...@xxxxxxxx" <gu...@xxxxxxxx> wrote:

On Sep 3, 4:07 pm, Randy Poe <poespam-t...@xxxxxxxx> wrote:

On Sep 3, 3:51 pm, "gu...@xxxxxxxx" <gu...@xxxxxxxx> wrote:

On Sep 2, 10:11 am, Randy Poe <poespam-t...@xxxxxxxx> wrote:

On Sep 2,  
4:46 am,  
"gu...@xxxxxxxx" <gu...@xxxxxxxx>  
wrote:

On  
Sep

Re: Can anyone draw a simulation of two orbiting planets?

1,  
3:24  
pm,  
Igor  
<thoov...@xxxxxxxxxxx>  
wrote:

On  
Aug  
31,  
4:53  
am,  
"gu...@xxxxxxxxxxx"  
<gu...@xxxxxxxxxxx>  
wrote:

Can  
anyone  
draw  
(perhaps  
animated  
gif)  
a  
simulation  
of  
two  
orbiting  
planets  
of  
SAME  
MASS?

I  
cannot  
image  
how  
two  
same  
mass  
orbits  
would  
look  
like?  
....would  
they

Re: Can anyone draw a simulation of two orbiting planets?

propagate  
forward  
or  
remain  
in  
one  
constant  
region?

One  
location,  
which  
doesn't  
seem  
to  
make  
sense,  
says:  
"Since  
stars  
have  
about  
the  
same  
mass  
(within  
a  
factor  
of  
20),  
they  
both  
orbit  
around  
a  
common  
point,  
called  
the  
center  
of  
mass,  
that  
is  
significantly  
different  
from  
one  
of

Re: Can anyone draw a simulation of two orbiting planets?

the  
star's  
center."

<http://www.astronomynotes.com/starprop/s1>

No  
objects  
ever  
orbit  
around  
any  
other  
objects.  
All  
objects  
will  
orbit  
a  
common  
center  
of  
mass  
under  
gravitational  
interaction.

Wonder  
if  
an  
atom's  
nucleus  
would  
also  
have  
such  
properties.

No, since  
(as you  
have been  
told many  
times) an

Re: Can anyone draw a simulation of two orbiting planets?

Re: Can anyone draw a simulation of two orbiting planets?

electron  
is not in a  
little  
Keplerian  
orbit around  
the nucleus.

– Randy–  
Hide quoted  
text –

1. There is an attraction  
between the nucleus and the  
electrons

Yes.

2. They call them orbitals

Yes, that is the name given to different states  
of the  
energy quantum number.

They are not called "orbits", because they  
are not  
orbits.  
That's why they were given a different name.

3. These orbitals are circular  
or elliptical in shape

No, they aren't.

Re: Can anyone draw a simulation of two orbiting planets?

Don't make up physics.

– Randy– Hide quoted text –

#1. The s p d f orbitals are spherical (or elliptical) or donut (ring) in shape, and one has to define what is ment by a "lower" shell or lower energy STATE when a photon is released.

The s-orbitals are spherical. The others are not. Nor are they elliptical. Nor are they "donut-shaped".

den wat r day...square?

Not so simply described. Hence websites that attempt to convey the structure through words, pictures, cross-sections and movies, such as this:

<http://www.orbitals.com/orb/>

<http://www.orbitals.com/orb/orbtable.htm>

[http://en.wikipedia.org/wiki/Atomic\\_orbital](http://en.wikipedia.org/wiki/Atomic_orbital)

"Classically, the electrons were thought to orbit the atomic nucleus, much like the planets around the Sun (or more accurately, a moth orbiting very quickly around a lamp)... As electrons cannot be described as solid particles (as a planet or a moth) in this way, a more accurate analogy would be that of a huge atmosphere, the spatially distributed electron, around a tiny planet which is the atomic nucleus. Hence the term "orbit" was substituted with something else: orbital."

<http://library.thinkquest.org/3659/structures/shapes.html>

"The shapes are uncertain, but predictions have been made by experimentation. Another difficult task is describing where an electron is. We can think of it as a wave, and describing its exact location is impossible for us to comprehend."

And when atoms are bound into molecules, the orbitals become even more complex:

<http://winter.group.shef.ac.uk/orbitron/>

Re: Can anyone draw a simulation of two orbiting planets?

Re: Can anyone draw a simulation of two orbiting planets?

I'm remembering why I've been ignoring your childish  
foot-stomping posts. Back into the circular file  
with you.

– Randy

.