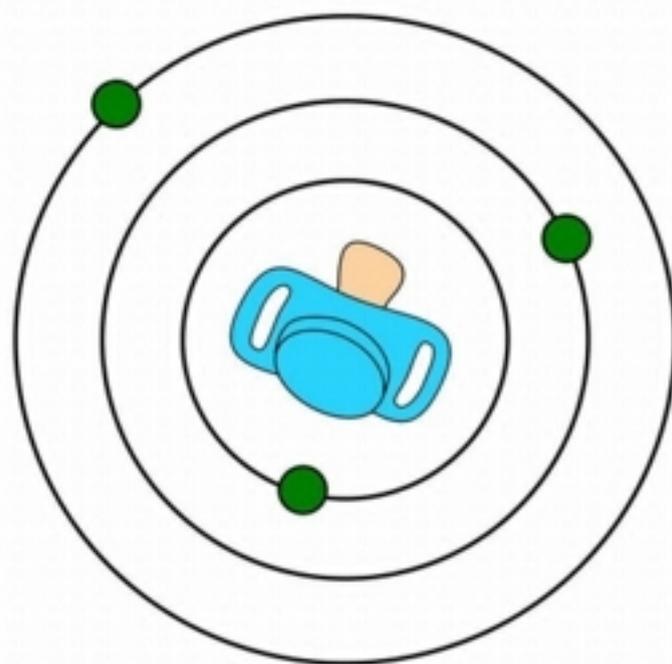


宝宝认识量子物理学

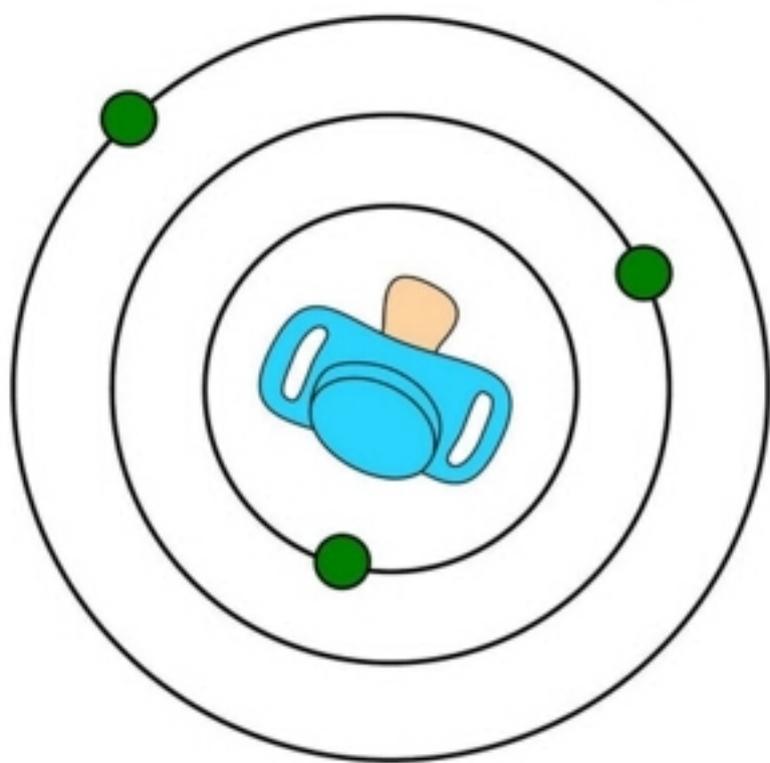
Quantum Physics for Babies



by Chris Ferrie

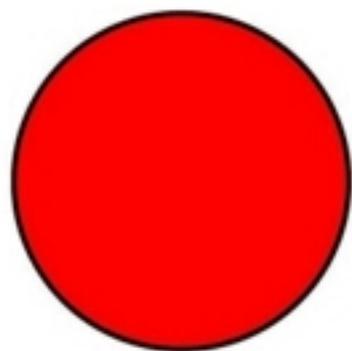
量子物理学

Quantum Physics

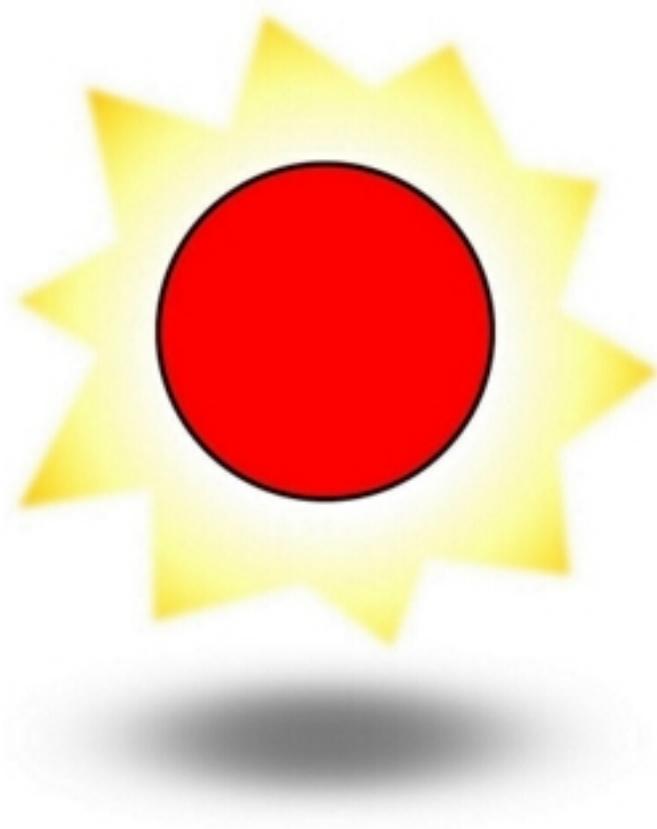


for Babies

婴幼儿版

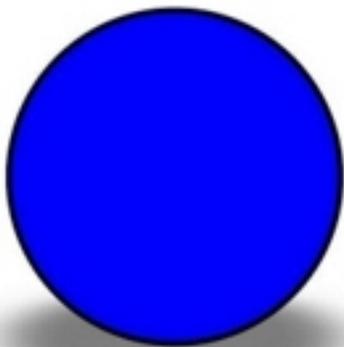


This is a ball.
这是一个球。

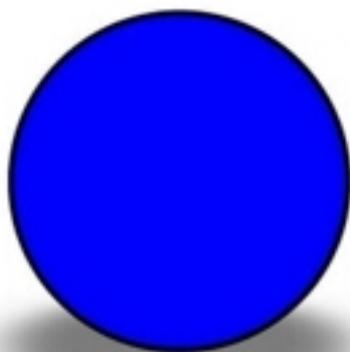


This ball has energy.

这个球拥有能量。

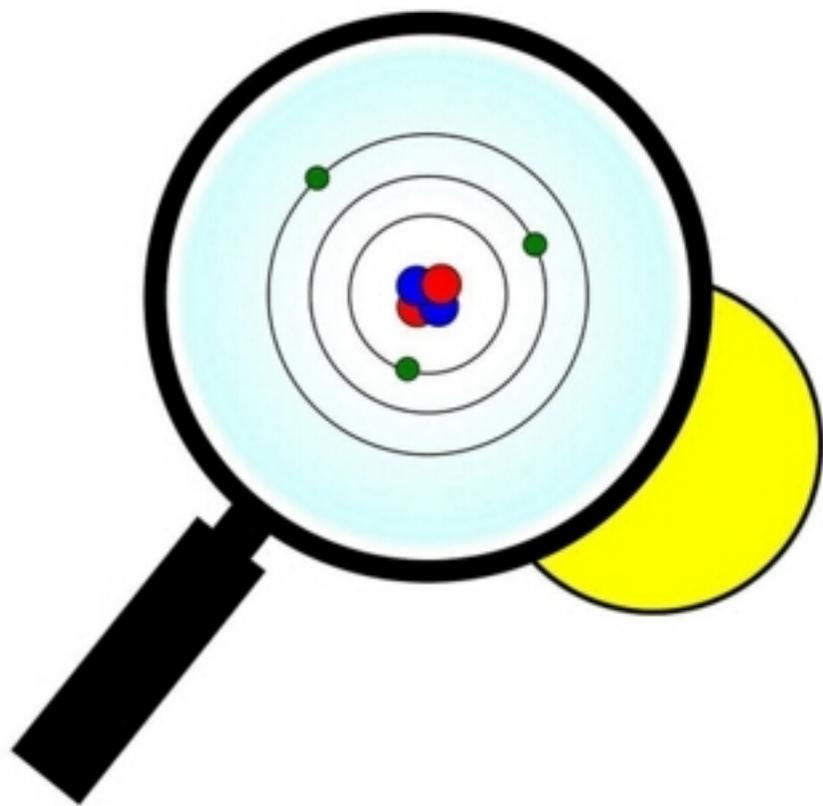


This is a ball.
这是另外一个球。



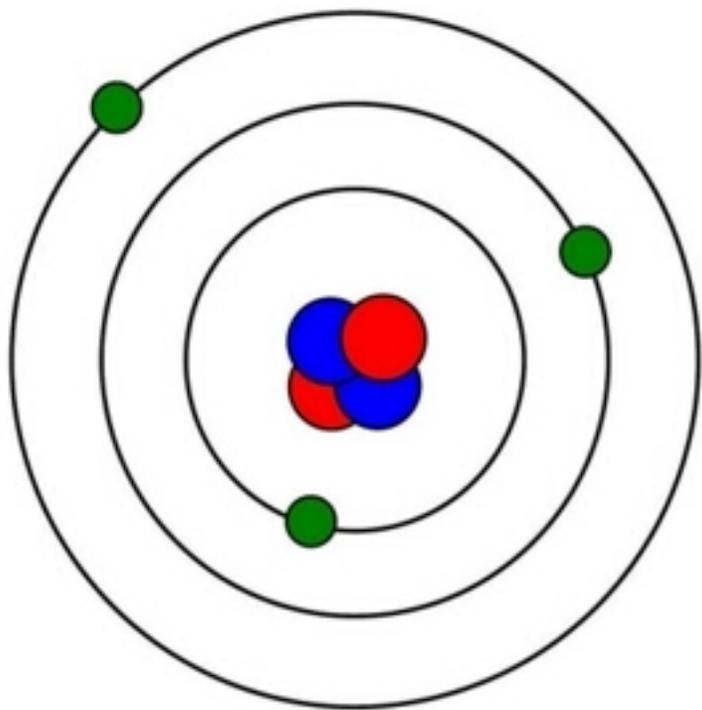
**This ball has
zero energy.**

这个球的能量为零。



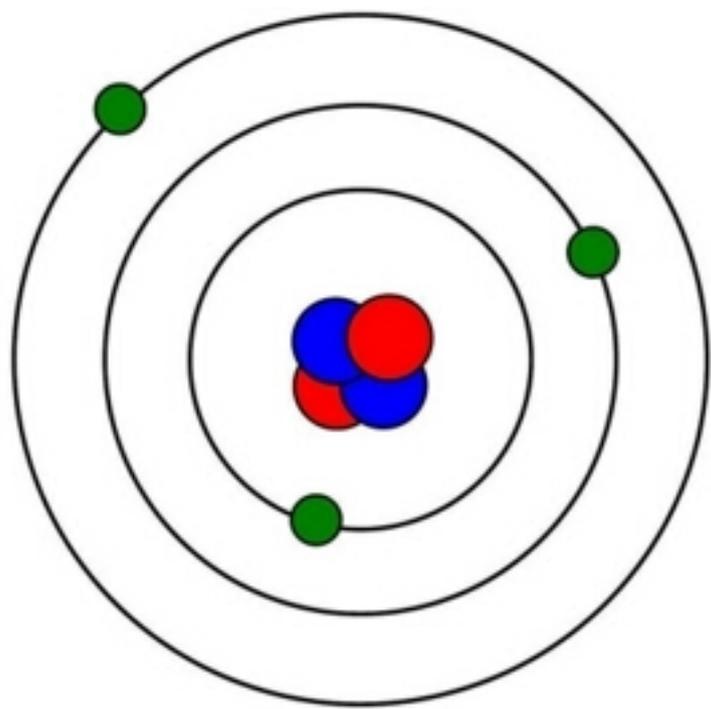
**All balls are made
of atoms.**

所有的球由原子组成。



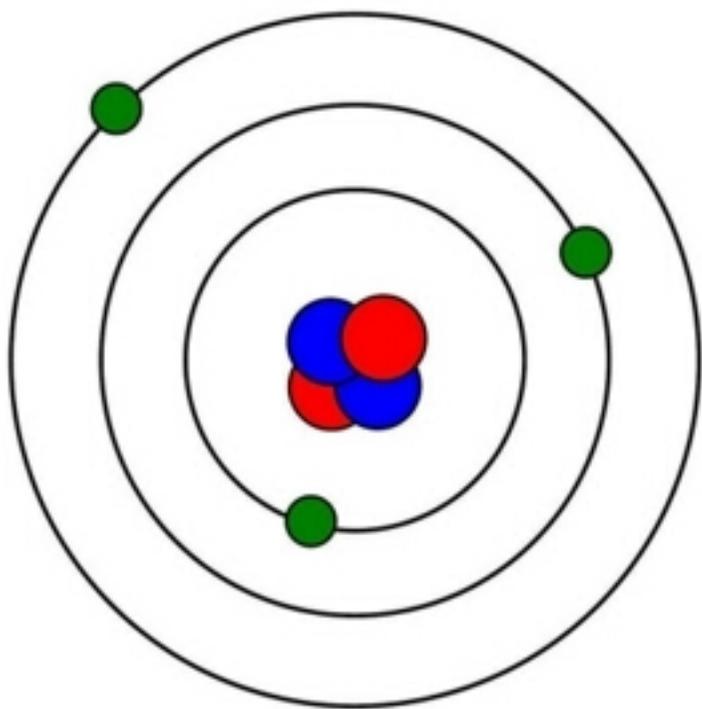
There are **neutrons**.

这里有一些中子。



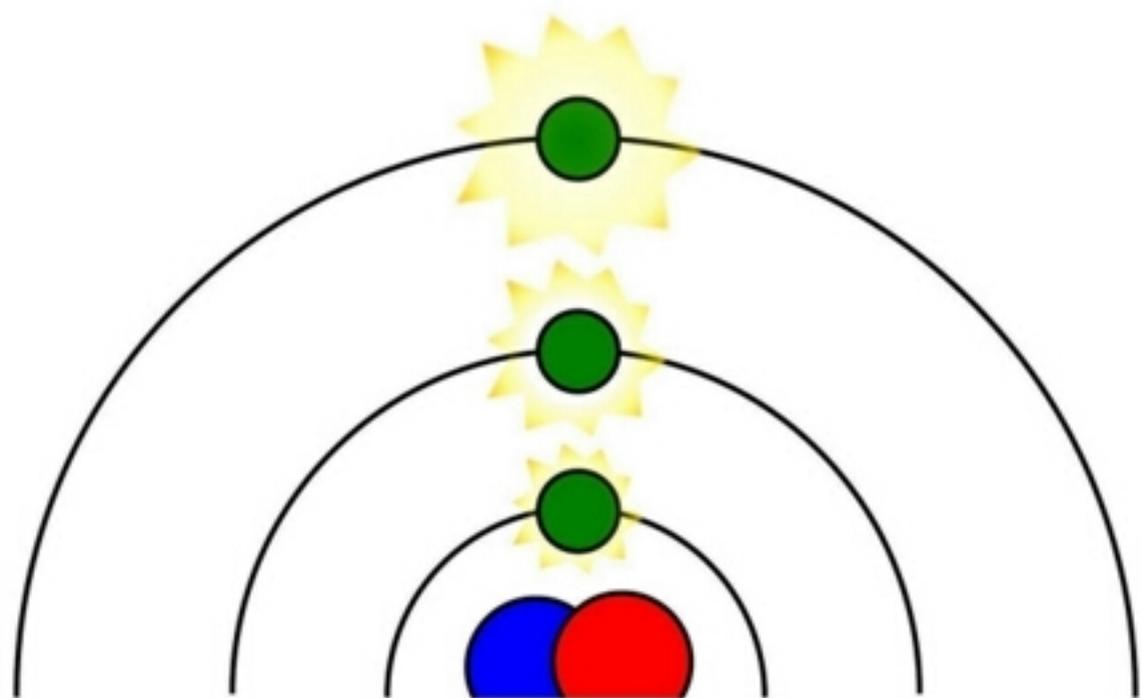
And **protons**.

还有**质子**。



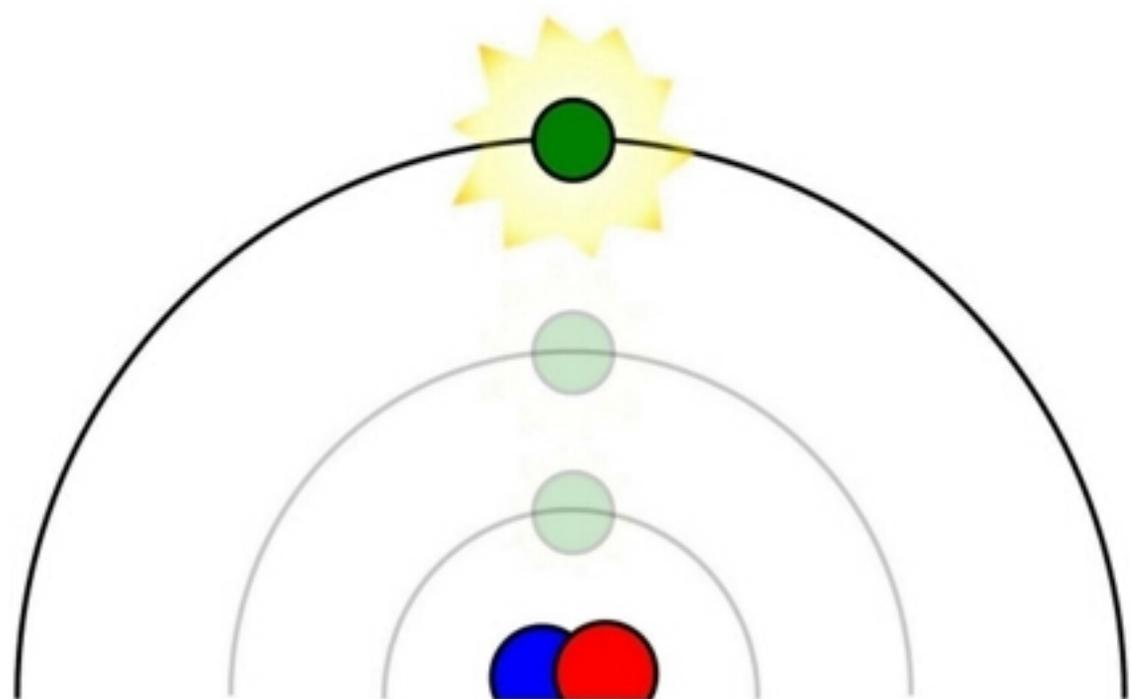
And electrons.

还有电子。



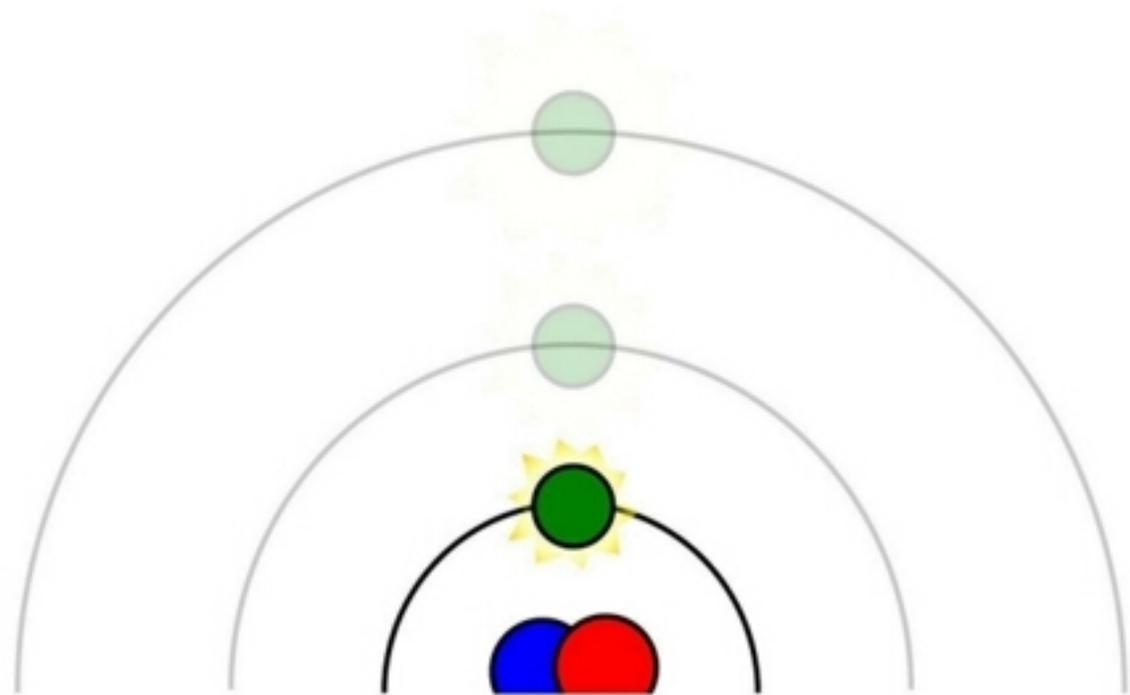
Electrons have
energy.

电子拥有能量。



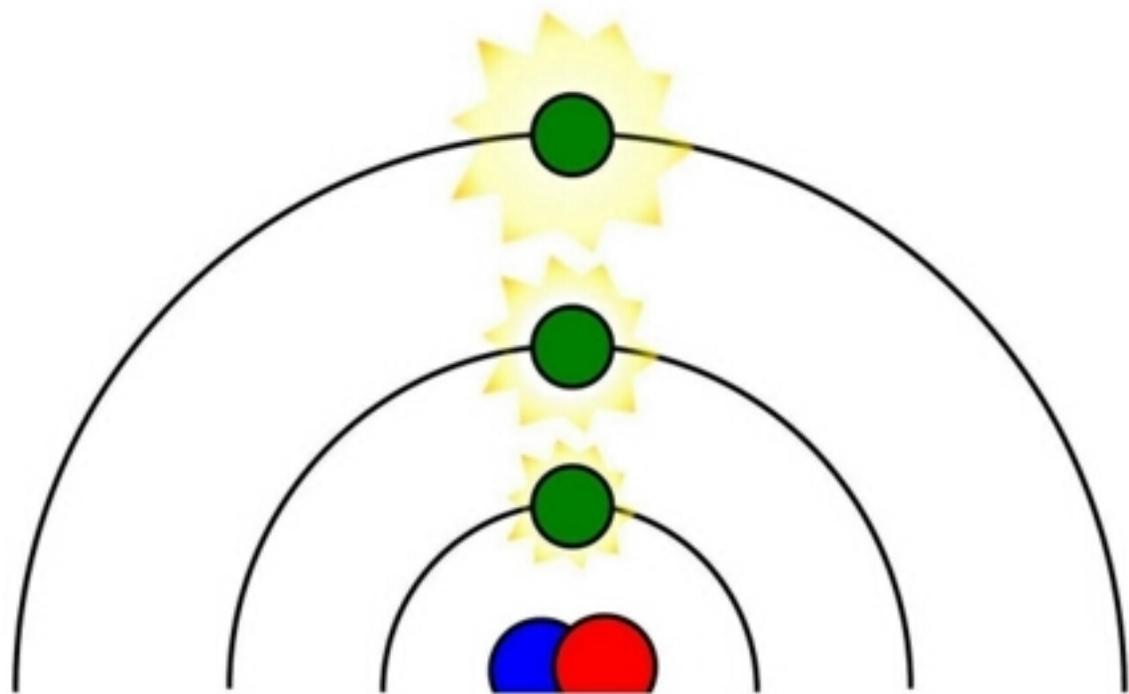
This **electron** has
the most **energy**.

这个**电子****能量**最大。



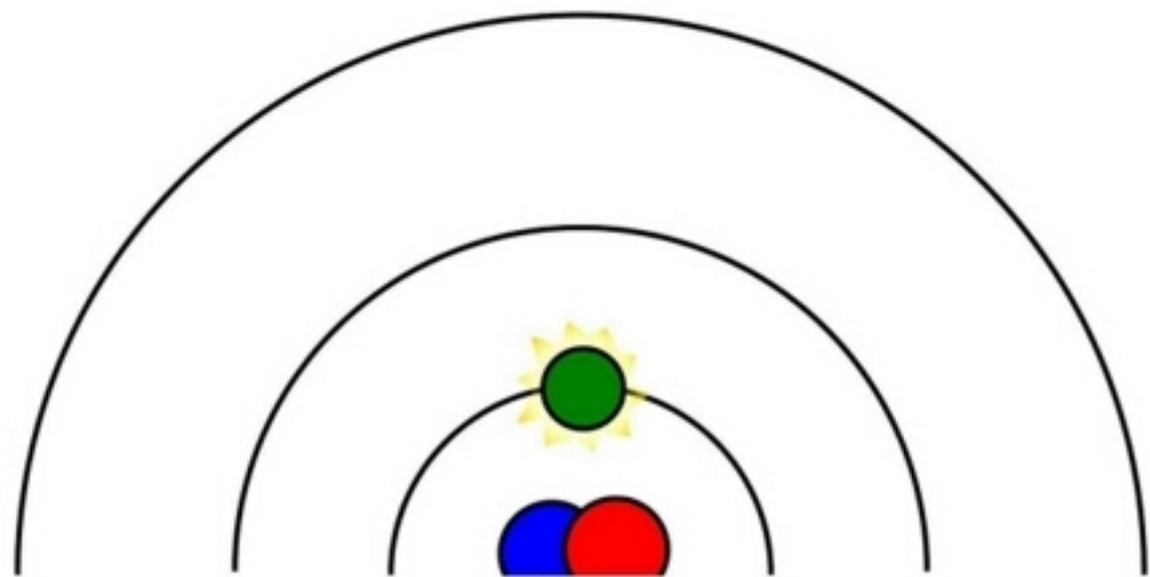
This **electron** has
the least **energy**.

这个**电子****能量**最少。



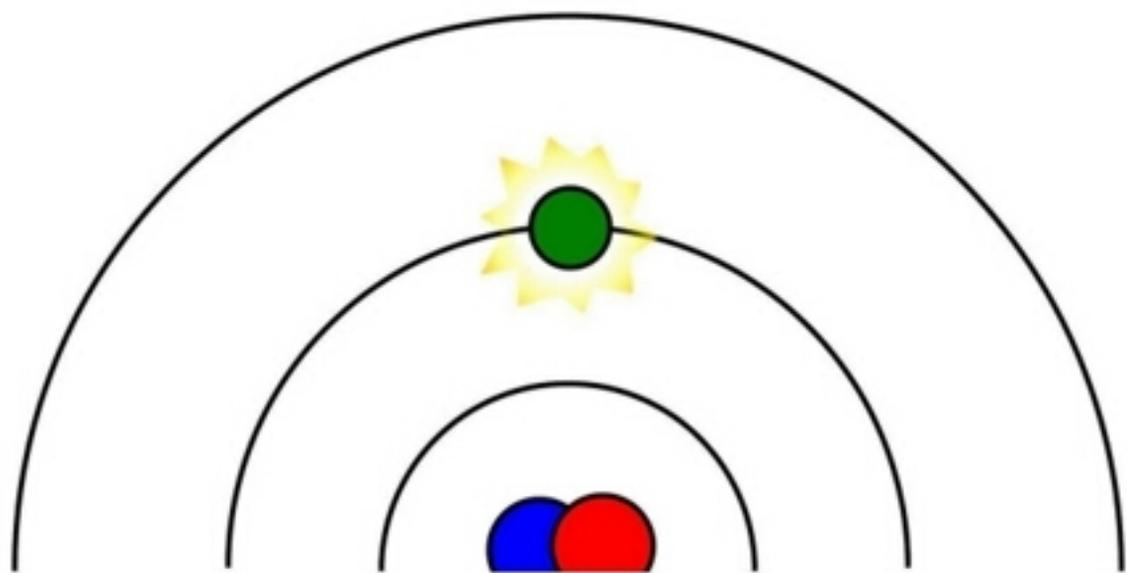
Energy is quantized.

能量可以被量子化。



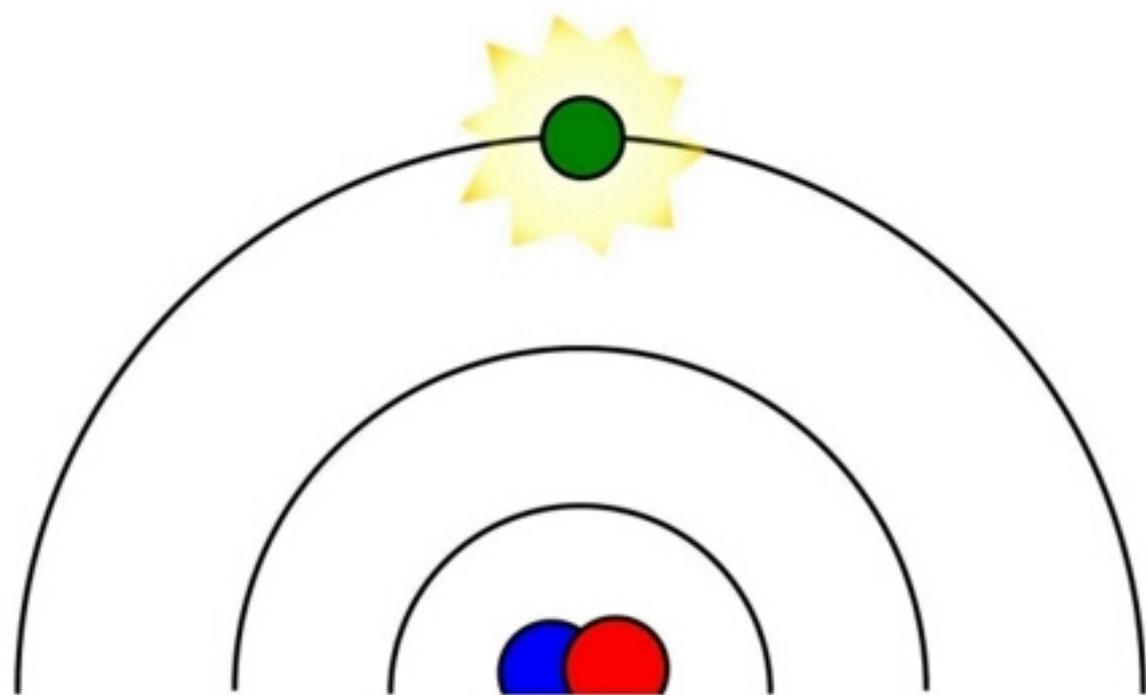
An **electron** can
be here.

一个**电子**可以在这里。



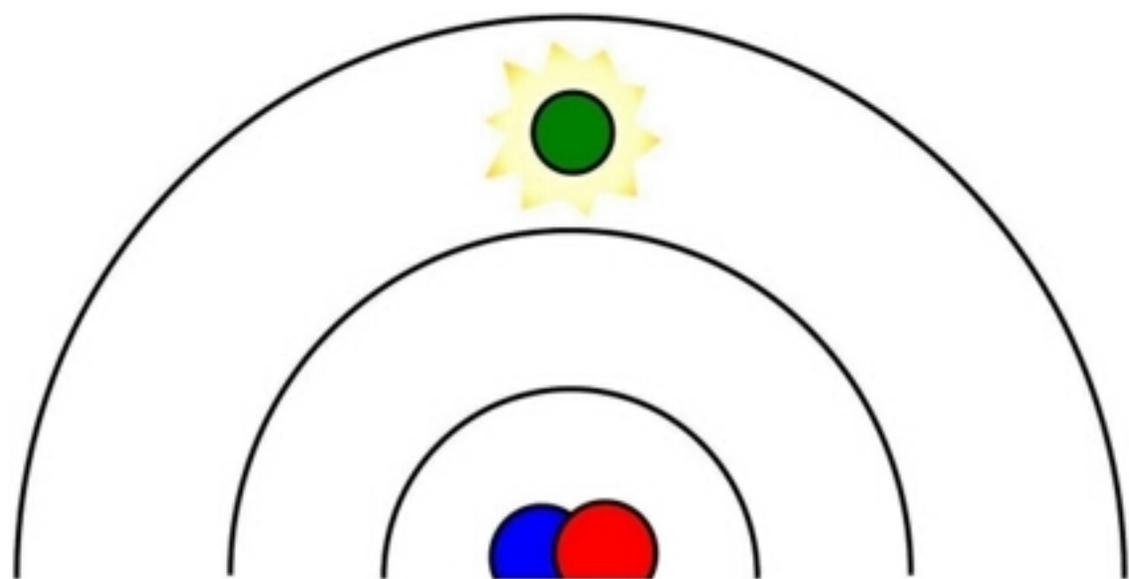
Or here.

也可以在这里。



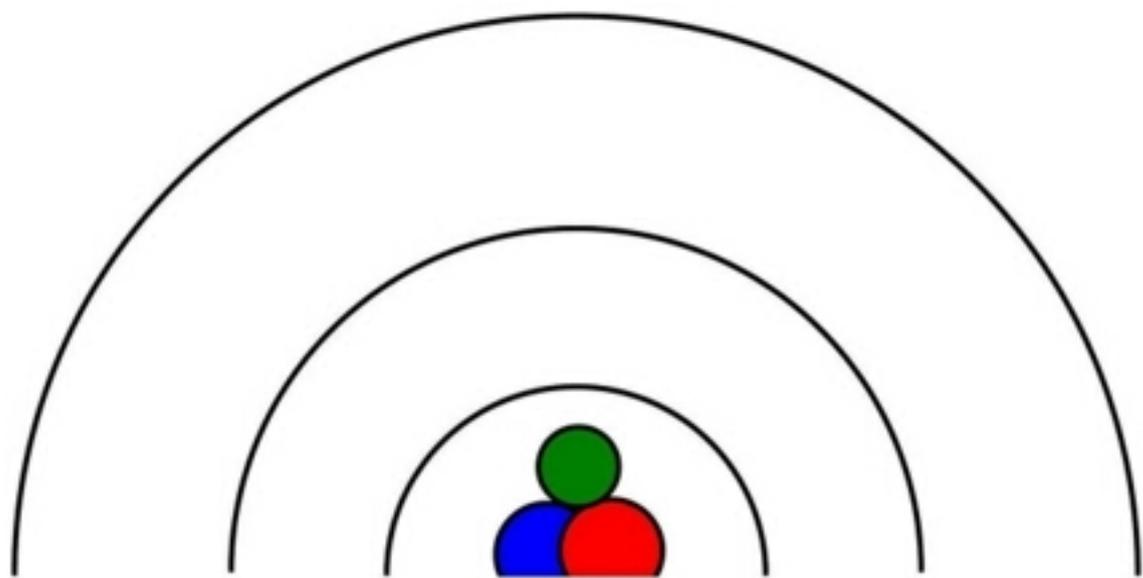
Or here.

或者在这里。



But not here.

但是不能在这里。



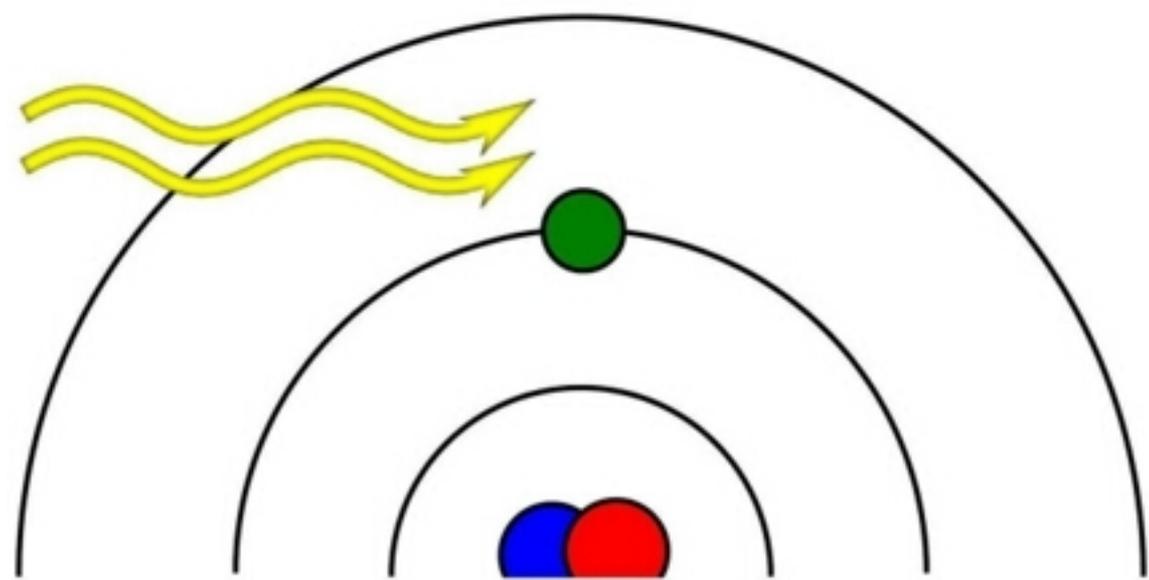
Or here.

也不能在这里。



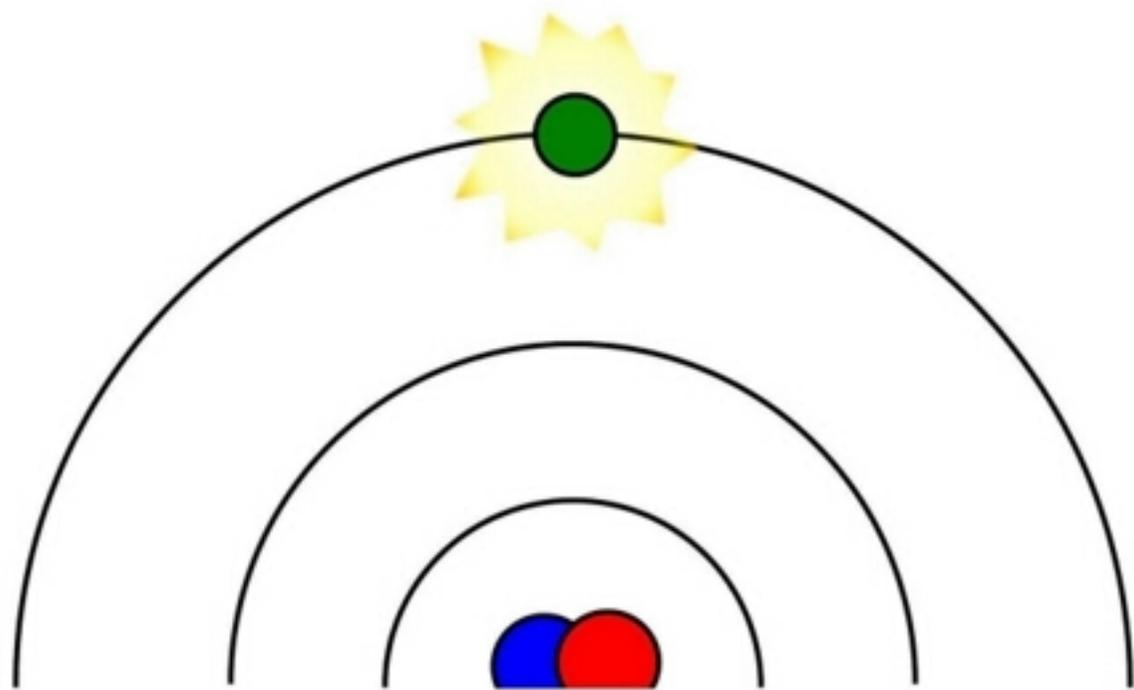
There are no **electrons**
with zero energy.

没有零能量的**电子**。

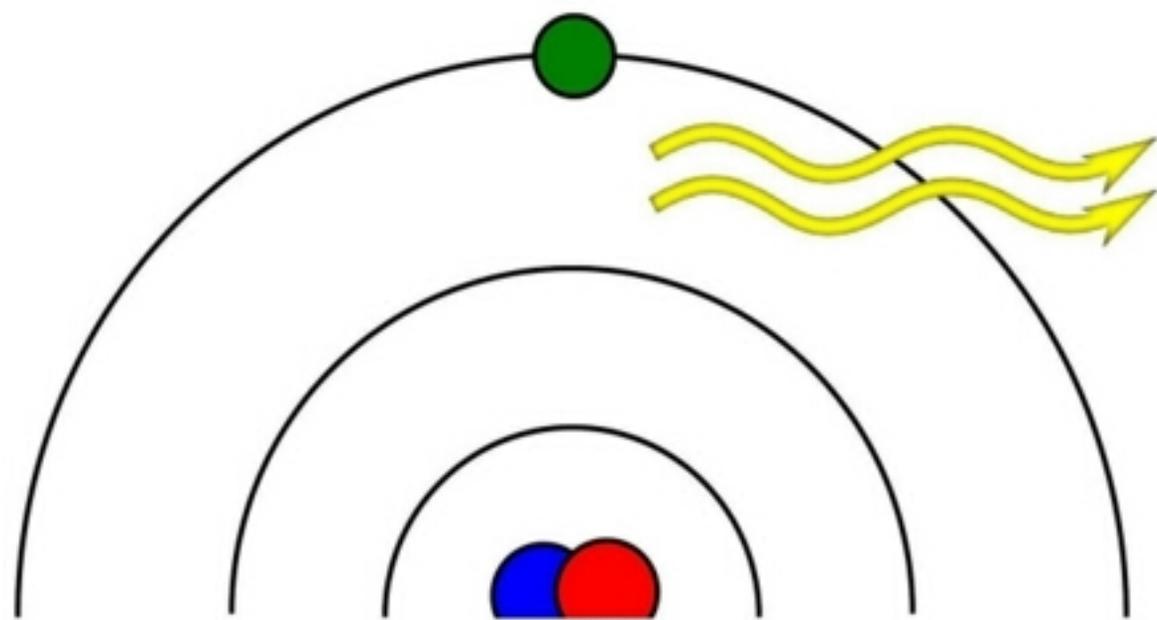


An **electron** can
take **energy**.

电子能携带**能量**。

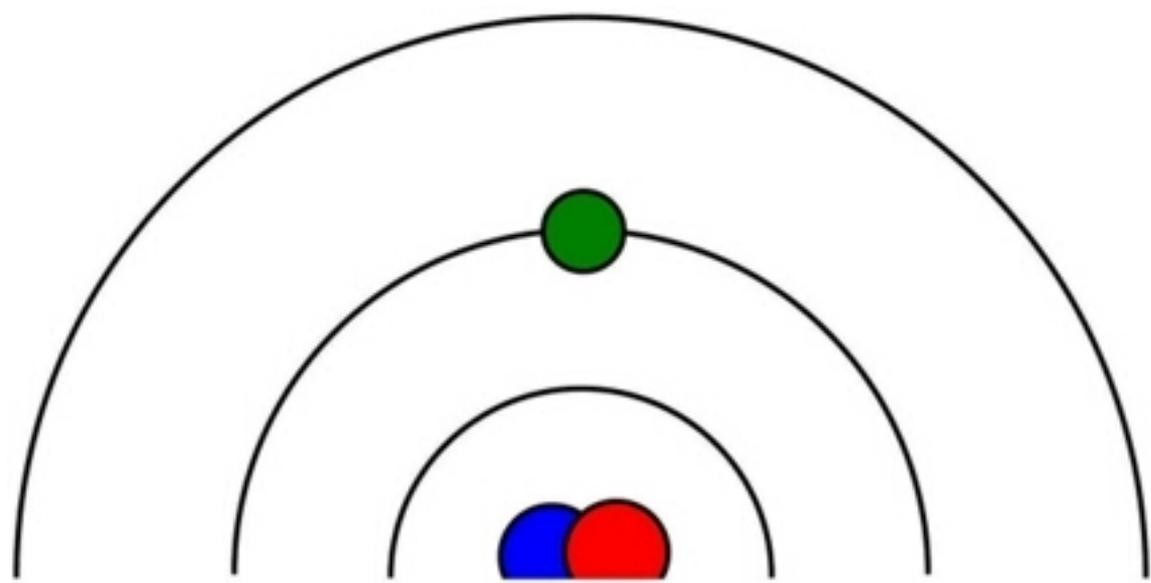


To jump up.
可以向上跳。



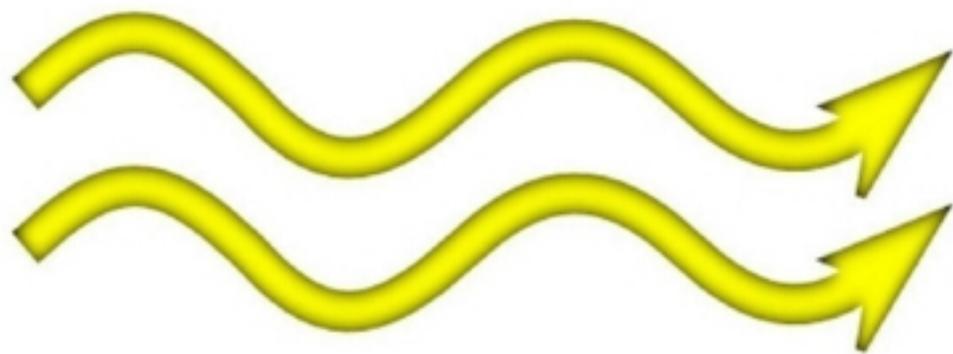
And must give
energy.

而且必须给予能量。



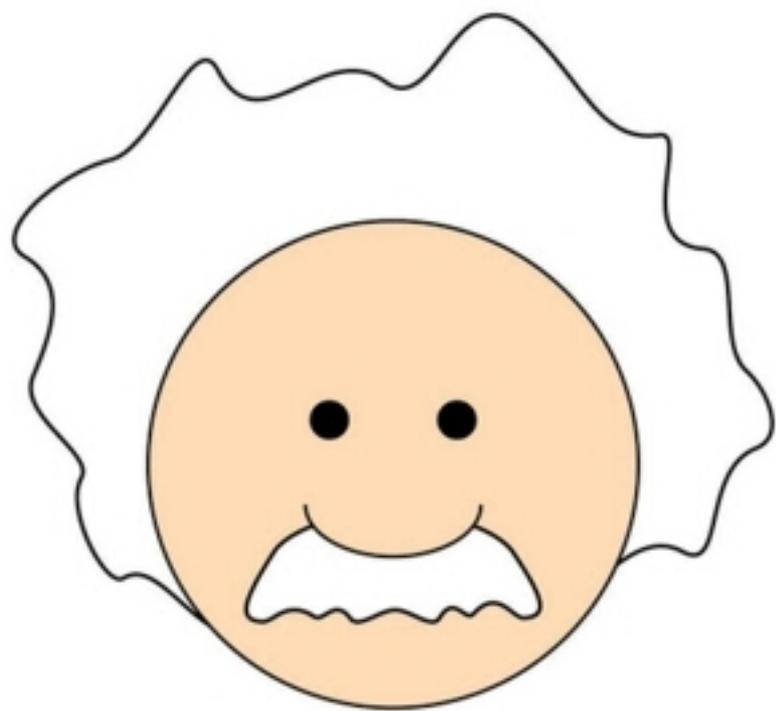
To fall down.

也可以向下掉落。



This amount of
energy is a quanta.

这种能量是一种量子。



**Now you are a
quantum physicist.**

你成为一个量子物理学家了。