

# Amazing discovery, chemical elements do not follow quantum mechanics theory

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1. Things to know about radium
2. Thankfully, the periodic table is easy to understand.

Thomas Albrecht-Schmitt and his colleagues for three years conducted experiments on the berkeli element (Bk) with atomic number 97. The results made them surprised. The behavior of berkelium does not follow quantum mechanics theory which is better described by Einstein's theory of relativity, often applied to objects in the macro world.



Berkeli chemical elements do not follow quantum mechanics theory.(Photo: Futurism.)

When compounds are created, electrons often return to the same direction. But this does not happen in the case of electrons arranged around berkeli atoms.

Based on the theory of relativity, the team explained that an object will be heavier when it moves faster. The nucleus of berkelium atoms has a large charge, causing the electrons associated with it to start to move very

quickly, leading to the heavy kernels of berkeli and different properties.

Albrecht-Schmitt is provided by the US Department of Energy with 13 milligrams of berkelium radioactive element to carry out research projects. Compared to other research projects, this amount of berkelium is about 1,000 times higher.

The Berkelium element was first discovered in 1949. But until now there has not been much research on this element. In the past, people even thought that it could not be put into a compound.

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