

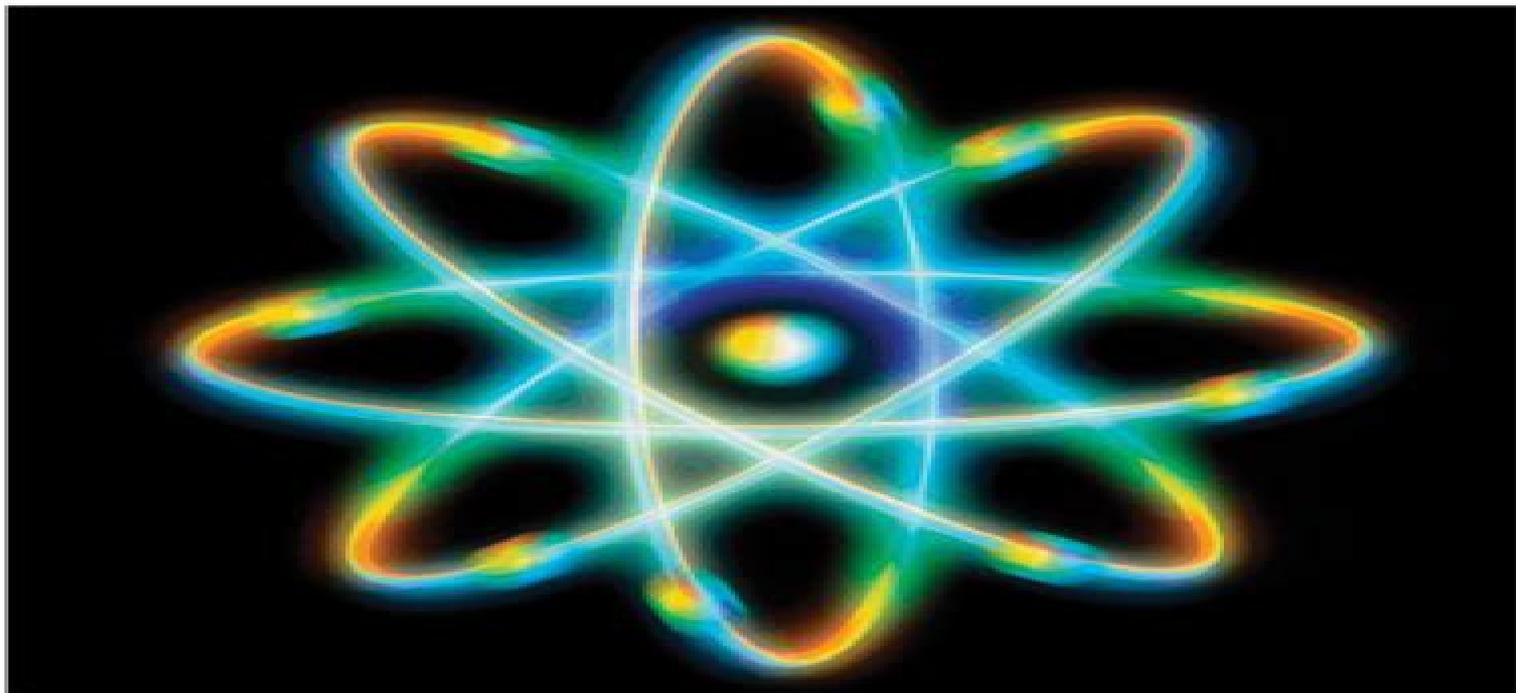
# The trouble with the aufbau principle

7 November 2013 Eric Scerri

## Feature

Generations of teachers are misleading their charges by teaching a sloppy version of the aufbau principle, claims Eric Scerri

The use of the aufbau principle to predict electronic configurations of atoms, and therefore explain the layout of the periodic table, is a key point when teaching chemistry. However, the version of this method that has been taught to generations of students is actually deeply flawed. The error is rather subtle and may well have arisen from an attempt to simplify matters.



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## Starting at the beginning

The aufbau method was initially proposed by the Danish physicist Niels Bohr, who was the first person to use quantum mechanics to study atomic structure. He was also one of the first to fundamentally explain the periodic table in terms of arrangements of electrons (electronic configurations). Bohr proposed that the atoms of the periodic table can be thought of as being progressively built up one

# The Trouble With Principle

**WJ Hussar**



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