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Date: 1/19/24

Student Exploration: Bohr Model of Hydrogen

Vocabulary: absorption spectrum, Bohr model, electron volt, emission spectrum, energy level, ionization energy, laser, orbital, photon

[Note to teachers and students: This Gizmo was designed as a follow-up to the Bohr Model: Introduction Gizmo. We recommend doing that activity before trying this one.]



Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- What happens to an electron when it absorbs a tiny packet of light called a **photon**?
the electron absorbs the energy from it, causing a higher energy level
- What happens to an electron when it emits a photon?
the electrons lose energy, causing a lower energy level

Gizmo Warm-up

When white light is passed through hydrogen gas and separated by a prism, some wavelengths of light are absorbed by the hydrogen atoms in the gas. This causes black bars to appear in the **absorption spectrum** of hydrogen. An **emission spectrum** is created when hydrogen gas emits light.

The **Bohr model** of the atom was inspired by the spectrum produced by hydrogen gas. The link between light and atomic structure is illustrated by the *Bohr Model of Hydrogen* Gizmo. The Gizmo shows a **laser** pointed at a container of hydrogen gas. After passing through the gas, light from the laser goes through a prism and is detected on a screen.

- With the **Laser energy** set to 7.0 eV, click **Play** (). Observe the blue electron on the ORBITALS pane. Do 7.0-eV photons have any effect on the electron? No, it doesn't, the electron stays at lvl 1.
- Click **Pause** (). Set the **Laser energy** to 12.1 eV and click **Play**. What happens to the electron now? the electron shakes up and down and moves up by 2 orbital (level 3)
- Under **Go to energy level**, select **1**. Notice that a photon is emitted by the electron. What is the energy of the emitted photon? (12.1 eV)

Bohr Model Of Hydrogen Gizmo Answer Sheet

Ricardo Simeoni, Griffith University



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Bohr's Model of Atomic Hydrogen Extended to Include Electron Rotational Kinetic Energy Ricardo Simeoni, Griffith University, 2003 [Bohr Model 73 Success Secrets - 73 Most Asked Questions on Bohr Model - What You Need to Know](#)
Eugene Maynard, 2014-10-09 The latest Bohr model sensation There has never been a Bohr model Guide like this It contains 73 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Bohr model A quick look inside of some of the subjects covered Superseded scientific theories Physics Rutherford model Symbolism Correspondence principle Franck Hertz experiment Hydrogen atom Quantum theoretical analysis Atomic molecular and optical physics History and developments Hydrogen spectral series Physics Timeline of scientific discoveries 20th century List of important publications in physics Quantum mechanics List of Google Doodles in 2012 October 7 Quantum chemistry Wave model Matrix mechanics The Three Fundamental Papers Free fall atomic model Plum pudding model Einstein s box Pre revolutionary debates Electronic configuration History Western culture Scientific and technological inventions and discoveries Atomic number The periodic table and a natural number for each element Superseded scientific theories Theories now considered incomplete Valence shell History Nuclear chemistry Early history Old quantum theory Bohr Sommerfeld theory Quantum mechanical Mathematical formulations Gustav Kirchhoff Kirchhoff s three laws of spectroscopy Schrodinger equation Quantization Stark effect Overview Mathematical formulation of quantum mechanics The old quantum theory and the need for new mathematics Iridium satellites Rydberg constant Ionization Semi classical description of ionization and much more

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