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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

Joacim Rocklöv

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Bohr Model Of Hydrogen Gizmo Answer Sheet:

Bohr's Model of Atomic Hydrogen Extended to Include Electron Rotational Kinetic Energy Ricardo Simeoni, Griffith University, 2003

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Bohr Model Of Hydrogen Gizmo Answer Sheet**

In a world inundated with monitors and the cacophony of fast interaction, the profound power and emotional resonance of verbal art often diminish in to obscurity, eclipsed by the continuous barrage of sound and distractions. However, nestled within the musical pages of **Bohr Model Of Hydrogen Gizmo Answer Sheet**, a fascinating perform of fictional beauty that impulses with fresh thoughts, lies an wonderful journey waiting to be embarked upon. Penned by a virtuoso wordsmith, this interesting opus guides readers on an emotional odyssey, gently exposing the latent possible and profound influence embedded within the delicate internet of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is central styles, dissect their interesting publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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web where h is the strength of the magnetic field in ampere turns metre at m n is the number of turns of the coil i is the current flowing through the coil in amps l is the length of the coil in metres m then to summarise the strength or intensity of a coils magnetic field depends on the following factors the number of turns of wire within the coil

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