

Review of: "Classical Explanation of Absorption Spectra"

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Potential competing interests: No potential competing interests to declare.

The manuscript interprets the frequency produced by the interaction of a light wave with electrons of a gas. The authors report a hypothetical experiment and discuss the emission of light through quantum and classical mechanics.

The subject is of interest, since the absorption and emission spectra give important information about the substance, in particular information about the excited atom as well as the frequency resonance of the gas. Therefore, the manuscript content is mildly interesting and would merit publication if some improvements are provided.

- The main criticism is the absence of any results and any proposed model for the calculation of the frequency oscillation of excited atoms. In the manuscript, the emitted light was obtained by a spectrometer and a prism, where the discussions were based on the classical theory of Rutherford-Bohr.
- In general, the resonances are related to the oscillations, which display a series of resonance frequency peaks; therefore, the phenomena of resonances are not the case for classical emitted light, as shown in the experimental figure. There are not any figures of resonance frequencies, and there are not any figures of oscillations.
- The manuscript presents several rays emitted by excited electrons; this phenomenon is studied above by the classical theory of Bohr. The question is, what is new in this manuscript?
- The publication needs some original results with models of calculations in order to support the discussions.