

A collaborative LaTeX document

Class of ID2090, Third Trimester of 2021 batch

June 14, 2022

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1 Introduction

This file includes tex files from the folders of each student. The students are expected to update the file named after their roll number and place any images in the same folder. Students do not have to edit this master document. Once the student has sent a pull request which is accepted and processed successfully, his/her assignment submission is deemed to be complete.

You are also welcome to add references and cite them. Examples on how to do that are on the course repository [?].

2 AE21B003

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3 AE21B028

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4 **AE21B045**

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5 AE21B056

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Planck's Equation

July, 2022

Planck's law describes the spectral density of electromagnetic radiation emitted by a black body in thermal equilibrium at a given temperature T , where there is no net flow of matter or energy between the body and its environment.

This formula is considered one of the most important physics formulas, as it is responsible for the birth of quantum mechanics, also television and solar cells. Max Planck postulated in 1900, that energy was quantised and could be emitted or absorbed only in integral multiples of a small unit, which he called **energy quantum**.

$$E = h\nu$$

Alternatively, this equation can be written as :

$$E = hc/\lambda$$

This relation gives the energy of a photon E , known as **photon energy**. This relation states that the photon energy is **directly proportional to its frequency, ν** .

Table 1: Terms used

TERM	DESCRIPTION
E	Energy
h	Planck's constant, whose value is $6.62607015 \times 10^{-34} m^2 kg/s$
ν	Frequency of the incident light
c	Speed of light, whose value is 299,792,458 m/s
λ	Wavelength of the incident light

—Thank You—

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44 Conclusions

If this master tex file could be compiled successfully, it means that the class has learnt the concepts of Git as well as LaTeX properly.

45 References

References

- [1] Repository for id2090 course. <https://github.com/gphanikumar/mm2090>. Accessed: 2022-06-13.