What is spectrum in physics

In simple words, a series of coloured bands (wavelengths) produced when light is separated into its constituent wavelengths is called spectrum. For example, when a white light is ...

All spectra show basically the same thing: how brightness varies with wavelength. Scientists often classify spectra based on the key light-matter interactions they represent and how ...

In physics, a spectrum represents the distribution of a physical quantity, typically energy or intensity, over a range of values, most commonly frequency or wavelength.

A spectrum is the distribution or range of different wavelengths or frequencies of electromagnetic radiation, often displayed in the order of their wavelengths or frequencies.

OverviewContinuous versus discrete spectra Electromagnetic spectrumMass spectrumEnergy spectrumDisplacementIn the physical sciences, the spectrum of a physical quantity (such as energy) may be called continuous if it is non-zero over the whole spectrum domain (such as frequency or wavelength) or discrete if it attains non-zero values only in a discrete set over the independent variable, with band gaps between pairs of spectral bands or spectral lines. The classical example of a continuous spectrum, from which the name is derived, is ...

In the physical sciences, spectrum describes any continuous range of either frequency or wavelength values. The term initially referred to the range of observed colors as white light is dispersed through a ...

Spectrum, in physics, the intensity of light as it varies with wavelength or frequency. An instrument designed for visual observation of spectra is called a spectroscope, and an instrument that ...

The term "spectrum" refers to how many photons are being emitted at each frequency (or wavelength or energy); it is just a fancy term to describe the distribution in energy.

Electromagnetic waves exist with an enormous range of frequencies. This continuous range of frequencies is known as the electromagnetic spectrum. The entire range of the spectrum is often ...

The Spectrum is a conceptual tool used to organize and map the physical phenomena of electromagnetic waves. These waves propagate through space at different radio frequencies, and ...

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