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## **The Astrophysics of Emission-Line Stars | Tomokazu Kogure ...**

An emission line will appear in a spectrum if the source emits specific wavelengths of radiation. This emission occurs when an atom, element or molecule in an excited state returns to a configuration of lower energy. Since every atom, element and molecule has a

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unique set of energy levels, the emitted photon ('packet' of radiation) has a discrete wavelength, and an energy equal to the ...

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Emission-line stars are briefly described in Chapter 7 and a more detailed presentation is given in the book The Astrophysics of Emission Line Stars by

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Kogure & Leung (2007). View.

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## **The Astrophysics Of Emission Line Stars Reprint**

The next generation of spectroscopic surveys will target emission-line galaxies (ELGs) to produce constraints on cosmological parameters. We study the

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large scale structure traced by ELGs using a combination of a semi-analytical model of galaxy formation, a code that computes the nebular emission from HII regions using the properties of the interstellar medium, and a large-volume, high ...

**[2010.08500] The assembly bias of**

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## Astrophysics And Space **emission line galaxies**

The near-IR spectrum of Gamma Cas contains emission lines of H I, He I, and Mg II. No lines of low-excitation species, such as are found in cool and dense environments, are detected. At the time of the observations, the observed Br-alpha and Br-gamma profiles were double-peaked, with V/R roughly 0.5 and

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FWHM roughly 260 km/s. The Br-gamma line profile varied significantly over the 4.5 month ...

## **The Infrared Emission-Line Spectrum of gamma Cassiopeiae ...**

For Higher Physics, revise emission or absorption of certain frequencies of light from the elements and atomic line

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**Emission spectra - Spectra - Higher  
Physics Revision - BBC ...**

Emission. In physics, emission is the process by which a higher energy quantum mechanical state of a particle becomes converted to a lower one through the emission of a photon,

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resulting in the production of light. The frequency of light emitted is a function of the energy of the transition. Since energy must be conserved, the energy difference between the two states equals the energy carried ...

## **Emission spectrum - Wikipedia**

If continuum absorption/emission is

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unlikely then this leads to an observed emission line. Examples include most nebulae. The second case arises because if you have a hot layer on top of a cool layer, then the light we receive from the "photosphere" will come from a hotter layer at the wavelength of a strong radiative transition (closer to the observer) compared with the continuum.

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## **astrophysics - Can we see emission lines in stars ...**

Absorption Line Spectrum of hydrogen.  
Distinguish between emission and  
absorption line spectra. In the case of an  
emission spectrum, the atom is first  
excited by a colliding electron. The  
colliding electron must have kinetic



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energy greater than or equal to the difference between energy levels of the atom.

## **Line Spectra | Mini Physics - Learn Physics**

An astrophysical maser is a naturally occurring source of stimulated spectral line emission, typically in the microwave

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portion of the electromagnetic spectrum. This emission may arise in molecular clouds, comets, planetary atmospheres, stellar atmospheres, or various other conditions in interstellar space

## **Astrophysical maser - Wikipedia**

The emission and absorption spectra

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A difference is provided here. These two topics are one of the most interesting concepts in Physics. Learn their differences in-details given in the table provided below. What is Emission Spectrum? When energy is absorbed by electrons of an atom, electrons move from lower energy levels to higher energy levels.

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