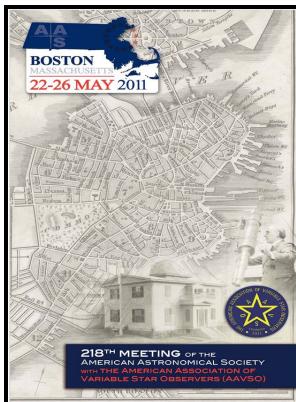


Study of the 10830 angstrom line of neutral helium in the spectra of red giants

University Microfilms International - Kinetic Isotope Effect in Low



Description: -

- study of the 10830 angstrom line of neutral helium in the spectra of red giants
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Notes: Doctoral thesis for the University of Texas at Austin.

This edition was published in 1980



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Tags: #Mass #Loss #from #Cool #Stars

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The absorption lines in the Sun and stars can be identified with individual chemical elements or molecular compounds by comparing their positions in the spectrum their wavelengths with those observed from pure sources in the laboratory.

Negative flare in the He I 10830 Å line in facula

We study the dynamical stability and fates of hierarchical in semimajor axis two-planet systems with arbitrary eccentricities and mutual inclinations. During the lifetime of the superbubble, H II region champagne flows and thermal evaporation of embedded clouds continuously mass-load the superbubble interior, while winds or supernovae from the Orion OB association rejuvenate the superbubble by sweeping up the material from the interior cavities in an episodic fashion, possibly triggering the formation of new stars that form shells of their own. Moreover, it appears that larger dust grains are preferred in quasars.

Spectra

These preliminary observations suggest that H-epsilon's observational characteristics result from an interaction of H-epsilon photons with the Ca II H line. Permission may be obtained from ACS for other uses through requests via the RightsLink permission system. Here I investigate the similarity and differences between the atmospheric structure of Mira-type and semiregular variable red giant stars through an analysis of previously obtained IUE data and NLTE radiative transfer calculations of hydrodynamic models representative of these stars.

Do Hydrogen

Electrons, like anything else, will attempt to seek their lowest energies. This code calculates both the detection time and multi-wavelength spectral characterization time required for planets.

Spectra

We produced a GP regression of relevant Kepler photometry.

The Department of Astronomy and Astrophysics

The spectra are smoothed by 3. Constraints on Metastable Helium in the Atmospheres of WASP-69b and WASP-52b with Ultranarrowband Photometry.

Mass Loss from Cool Stars

However, discrepancies occur among the coolest K-type and the warmest and most rapidly rotating F-type dwarf stars. We derive chromospheric radiative loss rates in the Mg II and Ca II resonance lines. During this period, the telegraph solution is argued to be unphysical.

Spectra

This core originates from a fluorescent region outside the influence of the strong gravity of the black hole.

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