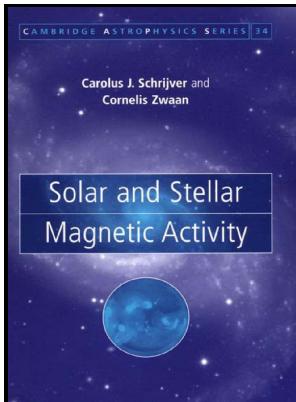


Study of the 10830 angstrom line of neutral helium in the spectra of red giants

University Microfilms International - MASS OUTFLOW AND CHROMOSPHERIC ACTIVITY OF RED GIANT STARS IN GLOBULAR CLUSTERS. II. M13 AND M92



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



Filesize: 57.71 MB

Tags: #The #Astrophysical #Journal, #Volume #879, #Number #2, #2019 #July #10

Past Research of Donald Luttermoser

A time-series analysis was performed using high dispersion spectra of the Mg II, k, Ca II H, and K lines of the semiregular giants Rho Per M4 II-III, periodicity of about 50 days , R Lyr M5 III, period of about 46 days , and g Her M6 III, period of about 90 days. Here we present the first spin-orbit alignment measurement for a wide-separation exoplanetary system, namely on the directly imaged planet β Pictoris b.

Mass Loss from Cool Stars

The self-consistent bulk flow speed reaches fast solar wind values in all cases, and these speeds are basically independent of the intensity ratio. Finally, we regard that accepting these features on shocks may be the starting point for investigating some questions regarding the sheath and shock, like downstream jets, instabilities, shock thermalization, shock stability, and injection particle processes. The simulated high-speed stream peak velocities at Earth reveal a linear dependence on the area of their source coronal holes.

Kinetic Isotope Effect in Low

The results of this work clearly indicate that the outer atmospheres of both Mira and semiregular variables are related in that both contain a chromospheric-type layer of enhanced temperature above the continuum formation depths and outward moving shocks which produce this chromosphere. A new 4D potential energy surface PES averaged over the ground vibrational states of D₂ and CO is used to calc.

Do Hydrogen

The theory we derived provides cross sections which are in a very good agreement with the exptl.

Mass Loss from Cool Stars

The agreement of our results with the latest exptl. Physical Parameters of Cluster Members in M92 ID No.

Helium in the eroding atmosphere of an exoplanet

We study the relation of active galactic nuclei AGNs to star formation in their host galaxies.

Helium in the eroding atmosphere of an exoplanet

Though light and its partners can act like waves, at the same time they can act like a stream of particles.

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