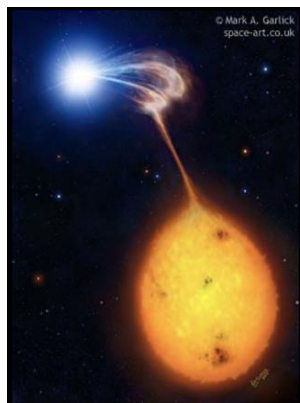


# Visible and infrared studies of cataclysmic variable stars.

## California Institute of Technology - Spectroscopy and orbital periods of four cataclysmic variable stars



Description: -

-Visible and infrared studies of cataclysmic variable stars.

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### A new study finds Cataclysmic variable V1460 Her has a fast spinning white dwarf

These a priori estimates allow the data to be more optimally weighted in period finding and curve fitting.

### Spectroscopy and orbital periods of four cataclysmic variable stars

The secondary spectrum and the outburst magnitude both suggest that AF Cam is approximately 1 kpc distant.

### Types of Variable Stars: Cepheid, Pulsating and Cataclysmic

As the more massive component evolves off of the main sequence into a red giant, the secondary star finds itself orbiting within the atmosphere of the massive star. Ciurlo is also involved in the development of post-processing tools for adaptive optics data.

### Cataclysmic variable star

Also shown is the main-sequence color—color relationship labeled line from K0V to M8V, and the reference M stars see Section observed in our sample gray boxes. The pipeline obtains a wavelength calibration by examining the night sky lines in each data frame and corrects for field curvature using arc lamp frames collected at the end of each night as well as dividing by a flat field. These followed the same reduction process as the data frames, but instead used the single combined output from the reduction pipeline since radial velocity smearing was not an issue.

### Cataclysmic Variables

Classical nova outbursts are caused by sudden of -rich material on the surface of the white dwarf. He is a recipient of the , the , and was elected into the in 2009.

## **Peter Garnavich Personal**

At this spectral type, the CO features are close to their expected strength. Unless it is found that the spots on CVs are preferentially located near the equatorial regions, this explanation seems unable to produce the desired result. Zhuo is studying the variability of the Supermassive Black Hole at the Galactic Center over a long time baseline with both speckle holography and AO data.

## **UCLA Galactic Center Group**

We call the resulting objects white dwarfs. Aurélien Hees is currently a researcher at Paris Observatory and has been at the forefront of the relativistic modeling of astrometric, radar and radioscience observations and of tests of the gravitation theory since his graduate career. The spectrum of V436 Cen, shown in Figure , appears to be slightly later than that of V2051 Oph.

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