

## DSLR photometry of two Eclipsing Binaries.

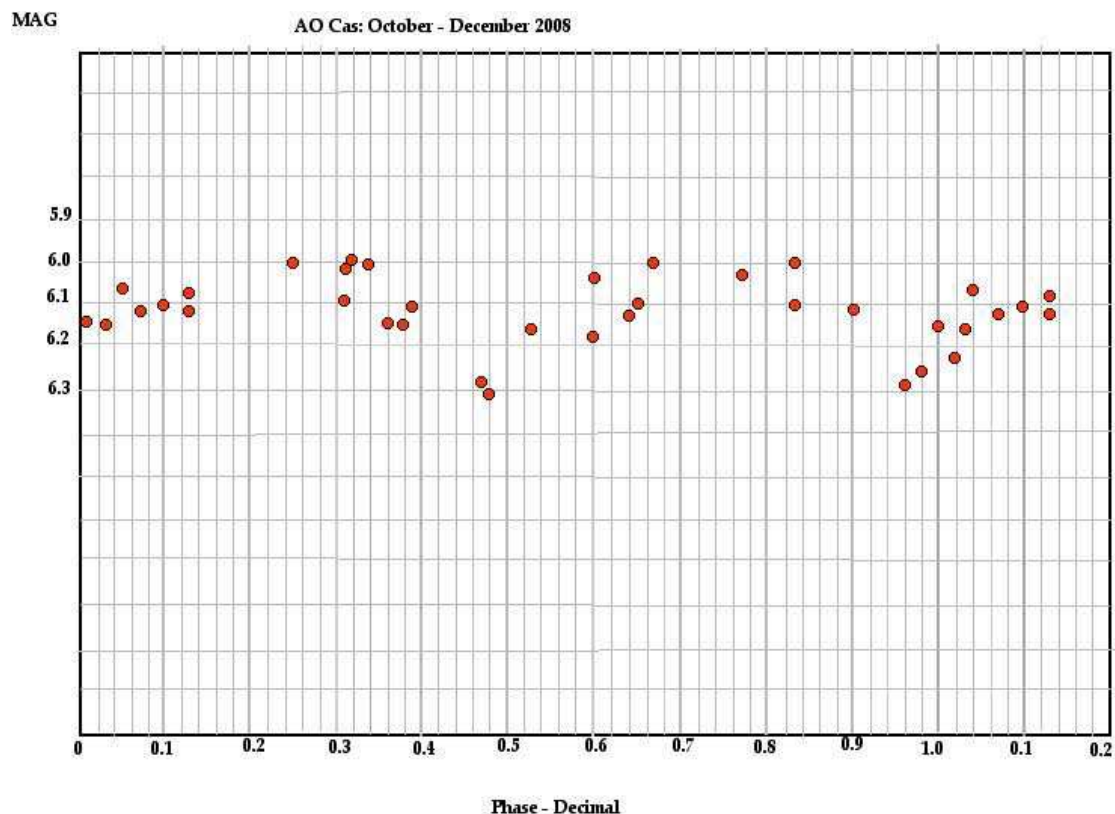
Des Loughney. December 14<sup>th</sup> 2008

### AO Cas

The period of the system is 3.52 days. It is an over contact binary comprising two massive stars of 32 and 30 solar masses. Due to their closeness the stars are heavily distorted. The secondary minimum is supposed to be displaced. In this diagram the secondary minimum should occur at 0.5 and the primary at 1.

Each point on the diagram represents an analysis of ten RAW images with AIP4WIN. The images were obtained with a Canon DSLR and a 200mm lens with the settings of ISO 800, exposure 2.5 seconds, f 4.

The purpose of the study is to determine if the period is correct and if the secondary minimum is displaced. The study will continue for another couple of months.



rho Cas.

This is a long term study of Rho Cas using DSLR photometry. The gaps are due to bad weather.

One of the alleged periods of this irregular variable is 350 days and there is some suggestion of that.

