

Vesta

High SNR Differential Photometry

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Abstract

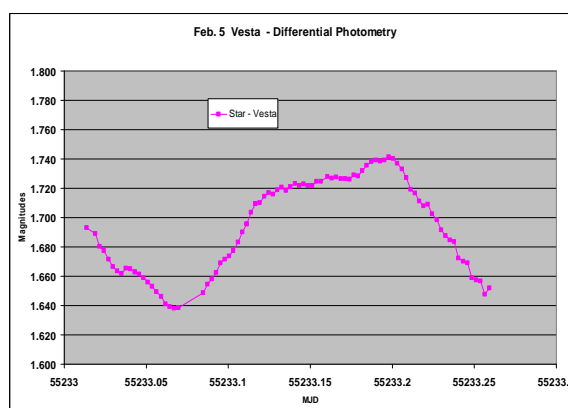
Our goal is to obtain ground-base high SNR color variation of Vesta in the 7 color bands of the NASA Dawn spacecraft mission.

1. Introduction

During the 2010 apparition of Vesta we obtain high SNR disk-integrated relative photometry (light Curves) of Vesta using the “Dawn” filter set. We used the Calar Alto (Spain) 1.23m telescope and chose those nights when Vesta and another bright star ($m_v < 10.5$) were in the same field of view – it requires careful planning and a great deal of luck.

1.1 Observations

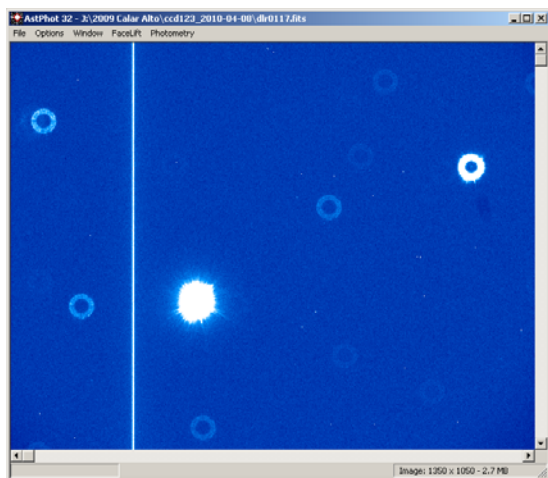
The Dawn Filter Set include the following bands :
430nm, 550nm, 650nm, 750nm, 830nm, 920nm
980nm



This is an example for a light curve (550nm) from a single night of differential aperture photometry.

2. Summary

The data reduction process is not yet finished. More results will be presented during the DPS meeting



Vesta and a reference star Apr. 8th 2010

