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Vesta
High SNR Differential Photometry

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Abstract

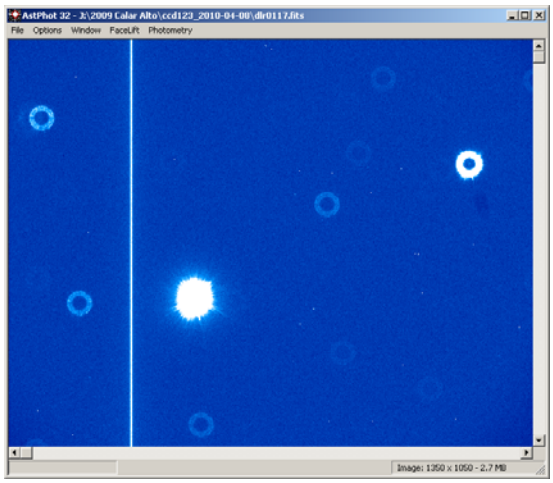
Our goal is to obtain ground-base high SNR color variation of Vesta in the 7 color bands of the NASA Dawn spacecraft mission.

1. Introduction

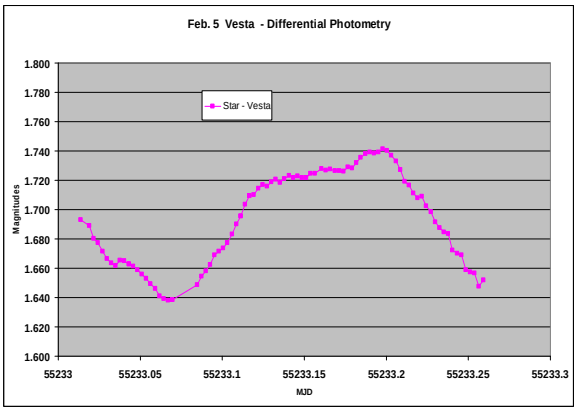
During the 2010 apposition of Vesta we obtain high SNR disk-integrated relative photometry (light Curves) of Vesta using the "Dawn" filter set. We used the Calar Alto (Spain) 1.23m telescope and chose those nights when Vesta and another bright star (m_v < 10.5) were in the same field of view – it requires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



Vesta and a reference star Apr. 8th 2010



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

2. Summary

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