

MULTI-SPECTRAL STEREOSCOPIC DETECTION OF THE SOLAR ATMOSPHERE AND ITS PRECISE FORMATION HEIGHTS

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During the data testing phase of SFMM in Meridian Project II, we observed that the geometric size of the solar image varied with different spectral lines and line's profile through the spectral scanning observation of Lyot-Filter. Further confirmation of these more refined and reliable variations was obtained through imaging observations by the spectrograph of China's latest H α Solar Explorer (CHASE) satellite. This report presents our discovery of "fine variations in the formation height of solar spectral lines across the spectral profiles".