

KOREAN ASTRONOMY IN THE PAST AND PRESENT

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ABSTRACT

Korean ancient astronomy was developed on its dual purposes, namely calendar computations and astrological fortune telling for the kingdom. Accordingly, in the past, astronomy was regarded as being one of the most important disciplines, and great efforts were made to keep up with steady but careful astronomical observations throughout the Korean history, using a variety of observing equipments. Fortunately, most of these precious records have been well preserved, which allow us to trace ancient astronomical activities in Korea. Our calendar system had been brought us from China. However, necessary modification had to make to fit to our geographical situations.

It is particularly interesting to note that a great number of confucious scholars studied astronomy to enrich their own cultural background in sciences, and quite a number of astronomical articles which they left is found in various literatures.

VALIDITY OF LUCY MODEL AND MOCHNACKI DOUGHTY METHOD FOR A GROUP OF CONTACT BINARIES

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ABSTRACT

The Mochnacki and Doughty method based on the Lucy Model to simulate a theoretical light curve from observational data is acceptably confirmed by applying the method of several other W Ursae Majoris type variables of totally eclipsing nature.

However the method reveals some weakness to a certain extent that its theoretical structure of correlation between parameters of mass-ratio and inclination of an eclipsing system is too sensitively unbalanced.

Validity of the method is prevailing only if the systems have well behaving light curves with steady period and no light variations.