소형망원경을 활용한 천체의 CCD 측광연구

A CCD PHOTOMETRIC STUDY WITH SMALL TELESCOPES

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Abstract

We performed the variable star searching program and CCD photometric study for the open clusters since 2004. We used a 155mm refractor (f=1,050mm) and a CCD camera in Bohyunsan Optical Astronomy Observatory (BOAO) of Korea Astronomy and Space Science Institute(KASI). We executed the variable star searching program to NGC 129, NGC 225, and NGC 7243. And we executed the CCD photometric study to M39(NGC 7092). The observing data were reduced with IRAF based on linux. According to observation result, we found 118 variable stars in three open cluster and we thought most of stars are new found. And, we obtained Color-Magnitude Diagrams of NGC 7092. The CMDs were made by standard magnitude of B, V and I filters. We are supported by R&E (Research and Education) program in Korea Science Academy.