

CCD Photometry of RR Lyrae stars in the Globular Cluster M53

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We present the preliminary results of our BV CCD photometry of RR Lyrae stars in the Oosterhoff group II cluster M53 (NGC 5024). The data set consist of two observing runs - the University of Hawaii 2.2m telescope data taken on March 1995 and the Bohyunsan Optical Astronomy Observatory (BOAO) 1.8m telescope data taken on April 1999. The light curves in both B and V bandpasses as well as the B-V color variations are presented. These will be used to calculate the effective temperatures of the RR Lyrae stars and to construct the $\log T_{\text{eff}} - \log P$ diagram for the test of Sandage period-shift effect.