

The m_1 Index in RR Lyrae Stars

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Abstract

We have carried out simultaneous $uvby\beta$ photometry for several RR Lyrae stars. For each of these stars, the observed m_1 index variation along the pulsation cycle is compared with that expected variation from the $(\Delta m_1^*, \beta)$ grids of Rodríguez *et al.* (1991) for the corresponding temperatures, gravities and metallicities. The m_1 index variations are also calculated using the Kurucz's models. Good agreement is found

B, V Photometry of the Variable Star V9 in the Globular Cluster 47 Tuc

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Abstract

We present BV CCD photometry of the variable star V9 in the globular cluster 47 Tuc. V , B , and $(B - V)$ light curves are given. A colour-magnitude diagram based on four V and four B frames is given. V9's location on the diagram is considerably brighter and bluer than the edge of the red horizontal branch. Its radial velocity indicates that V9 is a member of the cluster.