

A Correlation Study on Various Characteristics of Open Clusters

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A correlation study has been made to obtain physically meaningful relationships among various parameters characteristic to the open clusters in total of over 160.

In some cases the relationships have proved to be quite interesting; for example, the peak magnitude in the luminosity functions of the clusters with respect to their distances from the sun and the dispersion of the peak magnitudes with respect to their ages. We also noted apparent clusterings of the open clusters within the space of 100 parsecs. Other findings obtained from this study will be presented.

Photoelectric Observations of AR Lacertae

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Photoelectric observations of AR Lac have been conducted for about two years with the sixteen inch reflector at Yonsei Campus Observatory. We generated a light curve by combining our observations with those at the University of Florida. The resulting light curve will be presented.