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< 研究 論文 >

A Review of Early-Type Contact and Near Contact Systems

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Late-type contact systems have been known for sometime. They are commonly called W UMa systems. Even though not all the W UMa systems are found to be contact. Usually, they have spectral types of G to K. Early-type systems are having spectral types from O to about A. These systems are composed of hot and massive stars. It is generally believed that the O and B systems have radiative common envelopes in direct contrast to convective envelopes of the late-type systems. In the last fifteen years or so 14 to 15 systems have been discovered. For the systems having A type spectra their atmospheres are much more complicated and are frequently found having large temperature differences between components.

Many close binary systems are found to be semidetached. Some of them are having near contact configurations. These systems occupy a distinctive region in a H-R diagram comparing with the rest of the semidetached systems. The relationship between contact and near contact systems will be discussed.

A Search for Intracluster Magnetic Fields and the Large Scale Magnetic Fields of the Coma Cluster of Galaxies

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Statistical studies of Rotation Measures (RMs) of 157 radio sources seen in or through a total of 51 Abell clusters of Galaxies were made to detect the excess RM arising from the intracluster medium. When the samples are compared with the control RM samples seen farther away from the clusters, the former samples appear to be broadened by $20 < \text{RM}(\text{ic}) < 40 \text{ rad/m}^2$ with a confidence