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Thesis Title	Evolution of Low Mass Contact Binaries at the Lowest Limit of their Orbital Period
Supervisor	K. Gazeas, Lecturer
Summary	The present thesis performs a photometric investigation of low temperature and low mass stars, in the solar neighborhood. The scientific approach was obtained by utilizing photometric observations of contact binary stars, which show very low orbital periods, in order to determinate their physical and geometrical parameters (i.e. mass, radius, temperature and luminosity). This type of systems hosts stars, which are one step before their final coalescence, having a substantial part of their mass and angular momentum already exhausted due to their long evolution. The purpose of this study is the investigation of stellar evolution of these type of low temperature and low mass contact binaries, which might be correlated to the formation of Blue Stragglers and the rapidly rotating single stars, observed in some globular clusters.
Key words	stellar evolution, eclipsing binary systems, W UMa, contact binaries
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