

## Circularization and Tidal Dissipation in Eclipsing Binary Stars

By Faccioli, Lorenzo

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Results for early type binaries in the Magellanic Clouds from the MACHO project. | This work studies orbital circularization of binarystars past the Main Sequence using two new samples ofeclipsing binary stars found in the Magellanic Cloudsby the MACHO Project, as well as samples introducedby the OGLE-II project and finds strong evidence oforbit circularization past the Main Sequence phase ofstellar evolution, by the almost complete absence ofsystems with eccentric orbits in the Red Giant partof the Color Magnitude Diagram whereas the MainSequence exhibits systems with a broad range ofeccentricities. This absence allows to robustly conclude that binarystarscircularize their orbits either on crossing theHertzsprung Gap or on ascending the Red Giant Branchwhen they undergo a sudden and dramatic increase intheir dimensions resulting in strong tidal forcesthat disrupt the orbit. The work then quantifies the effects of tidalinteraction and distortions via a a thorough study of the Specific Dissipation Function Q, which isgenerally not well known for binary stars and findsevidence of a low degree of tidal dissipation. | Format: Paperback | Language/Sprache: english | 286 gr | 204 pp.



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