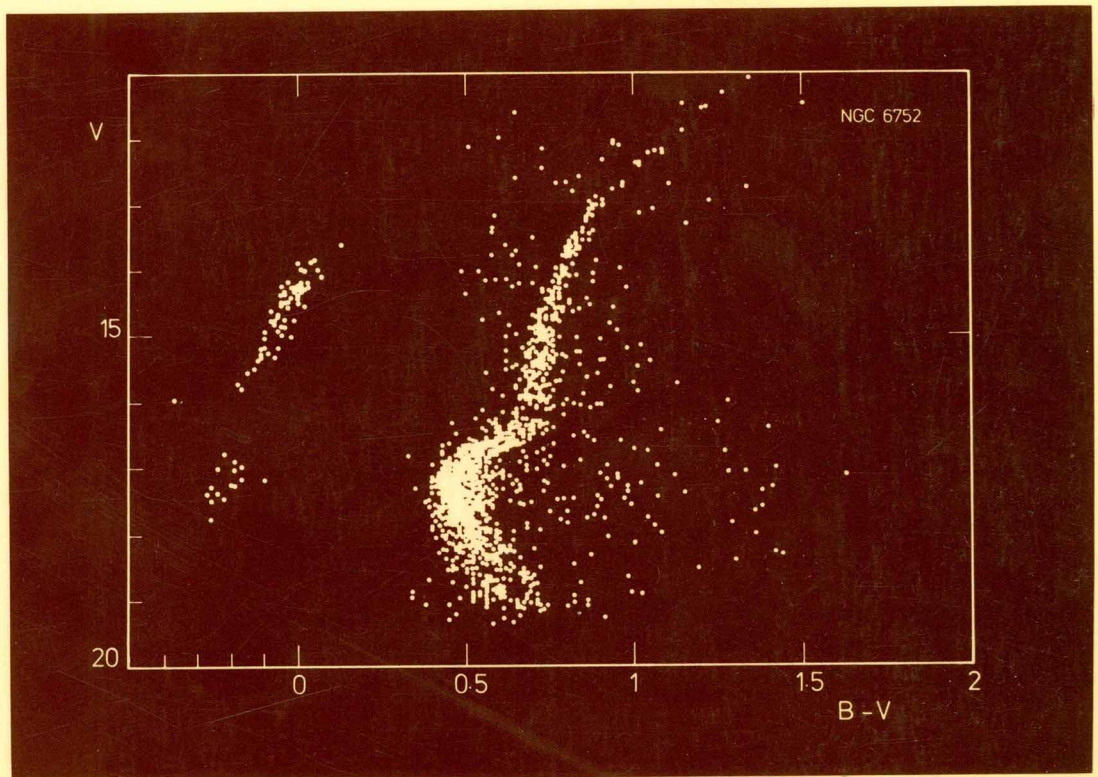


INTERNATIONAL ASTRONOMICAL UNION

SYMPOSIUM No. 105

OBSERVATIONAL TESTS OF THE STELLAR EVOLUTION THEORY

Edited by ANDRÉ MAEDER and ALVIO RENZINI



INTERNATIONAL ASTRONOMICAL UNION

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A. MAEDER and A. RENZINI (EDS.)

The aim of the Symposium, the proceedings of which constitute this book, was to make a cross-check of the numerous recent results in ground-based and space observations of galactic and extragalactic stars using evolutionary models. A number of reviews and papers give the present status of these comparisons, whose astrophysical purpose is twofold: firstly, to understand as precisely as possible how stars evolve and die, and secondly, to apply the predictions of stellar evolution theory as a useful tool in a variety of astrophysical fields like chemical evolution of galaxies and cosmology. In addition to the study of various interesting stellar groups like horizontal branch stars, red giants on the asymptotic branch, nuclei of planetary nebulae, massive stars, etc., the book also presents an assessment of the current problems of binarity, pulsation, rotation and mixing in connection with evolution. All this information makes this volume essential in the field of stellar evolution and its relationship with other fields.

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