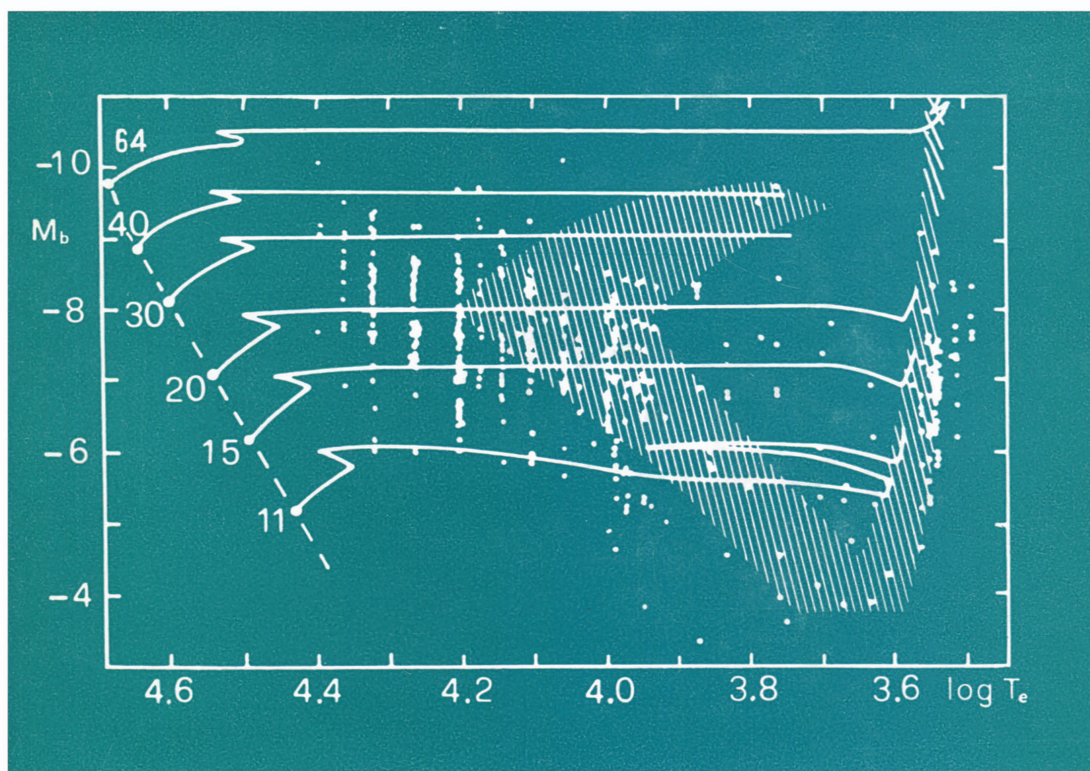


INTERNATIONAL ASTRONOMICAL UNION

SYMPOSIUM No. 66

LATE STAGES OF STELLAR EVOLUTION

Edited by R. J. TAYLER



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This book contains the proceedings of I.A.U. Symposium No. 66, which was held in Warsaw from September 10–12, 1973. It includes the full texts of all the invited papers from the Symposium together with abstracts of the short communications and a full account of the discussion. It ends with Concluding Remarks by M. Schwarzschild, which give his personal view of the present state of the subject. Although there are more theoretical papers than observational papers, a reasonable balance is kept between all aspects of the subject. The symposium was concerned with problems such as what determines whether a star ends its life as a white dwarf, neutron star or black hole and whether the heavy chemical elements are produced in explosions of supernovae. Answers to these questions require some very careful calculations of supernovae explosions but they also need detailed knowledge of the earlier stages of stellar evolution.

This is important because non-explosive mass loss and mixing of chemical composition between different layers of a star may well influence whether a star explodes and how much mass it loses explosively. Although final answers cannot yet be given to these questions, the contributors to the Symposium make it clear that considerable progress has been made in the past few years. At the same time the null result of the solar neutrino experiment indicates that early stages of stellar evolution are not yet fully understood.

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LATE STAGES OF STELLAR EVOLUTION

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