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Nota di contenuto	Allocution d'Ouverture -- Opening address -- Physical processes in stellar evolution -- Solar neutrinos: What we have learned -- Angular momentum loss mechanisms and stellar spin-down -- Recent progress in condensed matter physics -- White dwarfs: Useful stars -- The studies of novae from Schatzman 1949 to cygnus 1992 -- A prelude to stellar convection theory -- Transport processes in stellar interiors -- Solar neutrinos and transport processes -- Evidence for non-standard mixing on the red giant branch -- A criterion to select Li-rich giants -- About solar model calibration -- Solar abundances, convection and the standard solar model -- Galactic evolution of carbon and oxygen with metallicity dependent yields -- Asymptotic properties of dynamo waves -- Numerical solution of stellar nonradial oscillations: the Galerkin and B-Splines method -- Is the binary pulsar PSR 1718–19 formed by accretion induced collapse? -- Dibaryons in dense nuclear matter --

Calibration of  $\alpha$  Centauri and the uniqueness of the mixing length --  
Overshooting from convective cores.

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Sommario/riassunto

This volume, in honour of Evry Schatzman, contains in-depth reviews on central topics of modern astrophysics, such as stellar physics, covering stellar evolution, solar neutrinos, stellar rotation and spin down, convection transport processes, neutron stars, white dwarfs, and novae. All the talks were given by leading experts who had time both to develop the basics of their subject and to cover recent work. The volume is meant for both graduate students and researchers.

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