

M. Breger*Institut for Astronomy, Vienna University, Tuerkenschanzstrasse 17, A-1180 Vienna, Austria*

This review emphasizes the connection between observations and theory in the Lower Instability Strip. It is argued that Delta Scuti and Gamma Doradus stars are very close relatives in the sense that the Gamma Doradus phenomenon can also be seen in the slightly hotter Delta Scuti variables.

New developments and recent progress are reviewed. Particular attention is given to the problems that need to be solved for the successful application of asteroseismology. For the essential mode identifications considerable progress is presently being made both spectroscopically and photometrically. Furthermore, we note that the large number (60++) of frequencies found from ground-based (and especially space) photometry raises the requirement of unique matching of theoretical frequency predictions.
