

Pulsations in the atmospheres of Ap stars / inversions

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A brief review of the recent results of p-mode oscillations in roAp stars obtained from the spectroscopic and photometric observations is given. While in the atmospheres of most roAp stars the radial velocity (RV) analysis shows the presence of the outwardly propagating pulsation waves, in 33 Lib RV analysis gives an evidence for inwardly propagating wave. I discuss the recent models of pulsations in roAp stars and their application to the modelling of the observed frequency patterns and of the RV amplitudes and phases distribution through the atmospheres of roAp stars. An importance of the simultaneous pulsation and atmospheric structure analysis is emphasized.