

On the problem of selective enhancement of barium in the atmospheres of bair stars

Mashonkina L., Začs L.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

High-resolution spectroscopy and standard LTE analysis of 31 barium and normal red giants (Astron. Astrophys. 283, 1994, p. 937) shows a selective enhancement of Ba ($\sim +0.5$ dex) in two stars. HR3845 and HD130386, relative to the standard star ϵ Vir. We do not overinterpret these enhancements due to possible errors in the equivalent widths or in the atmospheric parameters. The non-LTE analysis of BaII in the atmospheres of red (barium) giants shows that the corrections for the non-LTE effects is relatively small, reaching a maximum of -0.16 dex, therefore, the enhancement of barium had apparently another nature.
