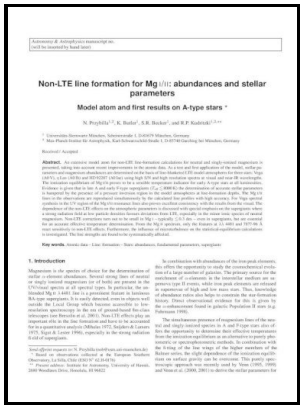
Non-LTE analysis of Mg II in B stars

Dept. of Astronomy, University of Toronto - [1809.06969] NLTE line formation for and in atmospheres of B


Non-LTE line formation for Mg I/II: abundances and stellar parameters

Model atom and first results on A-type stars

Description: -
-non-LTE analysis of Mg II in B stars
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Notes: Thesis (M.Sc.)
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Tags: #[1809.06969] #NLTE #line #formation #for #and #in #atmospheres #of #B

Surface abundances of light elements for a large sample of early B

By referencing our abundances from the 3995 Å line to those from Hunter et al.

Infrared Emission Lines of Mg II in B Stars

In particular, a spotted distribution of helium and other chemical elements on the surface of a star can take place. To synthesize these profiles, we need to include more complex geometry in our models of spicules. Some of these ideas are shown in.

Infrared Emission Lines of Mg II in B Stars

On average, two sets of v sin i are in agreement: the least-squares fit to the data dashed line is almost indistinguishable from the solid line corresponding to perfect agreement. More recently, Alissandrakis et al.

Infrared Emission Lines of Mg II in B Stars

Spectroscopic observations of stars provide only the projected rotation velocity v sin i; they do not provide the equatorial velocity v directly. Our current knowledge comes mainly from the analysis of synthetic profiles obtained from state-of-the-art 3D numerical simulations and the recent IRIS observations.

Chemical diversity among A

One star—a supergiant—in NGC 3293 appears N-enriched, but this star is not C-depleted.

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For each star, enhancement of Ba is higher than that for any other heavy element. In addition, the derived LOS velocities at the upper part of the

observed spicules do not have distinct blue—red asymmetry.

Magnesium abundances in mildly metal

This work was partly funded by the Director General Discretionary fund at ESO. The mean thermal velocity V th that corresponds to the slab temperature T and the nonthermal microturbulent velocity of the slab were adopted to calculate the total Doppler width in frequency units , where ν 0 is the rest frequency and c is the light speed. Radial Velocities In the BSS, the resulting runaway B star will either be a single B star or form a binary system with a low-mass compact companion e.

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