

Poster

STARK BROADENING OF B I SPECTRAL LINES

M. Christova¹, M. S. Dimitrijević^{2,3} and S. Sahal-Bréchot³

¹*Department of Applied Physics, Technical University-Sofia, 1000 Sofia, Bulgaria*

²*Astronomical Observatory, Volgina 7, 11060 Belgrade 38, Serbia*

³*Sorbonne Université, Observatoire de Paris, Université PSL, CNRS, LERMA,
F-92190 Meudon, France*

E-mail: mchristo@tu-sofia.bg, mdimitrijevic@aob.rs

Calculations of the Stark broadening parameters of neutral boron spectral lines have been presented. The work is based on the semi-classical theory developed in Sahal-Bréchot (1969a,b). Experimental values of energy levels in Kramida and Ryabtsev (2007) have been applied.

References

- Sahal-Bréchot, S.: 1969a, Impact theory of the broadening and shift of spectral lines due to electrons and ions in a plasma, *A&A*, **1**, 91-123.
Sahal-Bréchot, S.: 1969b, Impact theory of the broadening and shift of spectral lines due to electrons and ions in a plasma (continued), *A&A*, **2**, 322-354.
Kramida, A. E., and Ryabtsev, A. N.: 2007, A critical compilation of energy levels and spectral lines of neutral boron, *Phys. Scr.*, **76**, 544557.