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Poster

THE (n-n')-MIXING PROCESSES IN THE HYDROGEN CLOUDS IN BROAD-LINE REGION OF AGNs

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The role of $(n - n')$-mixing processes (Mihajlov et al. 2011) in $H^*(n) + H(1s)$ collisions in AGN BLR clouds has been investigated. Our investigation indicates that these processes must have influence on the populations of hydrogen highly excited atoms in moderately ionized layers of dense parts of the BLR clouds. From the results it follows that the investigated $(n - n')$-mixing processes are of interest for the research and modelling of such medium. The obtained results could be also useful for modeling of different stellar atmospheres, as well as for the investigation of hydrogen Rydberg states.

References

Mihajlov, A. A., Ignjatović, L. M., Srećković, V. A., Dimitrijević, M. S.: 2011, *ApJS*, **2**, 193.