

THE IMPORTANCE OF SOME COLLISIONAL IONIZATION AND RECOMBINATION PROCESSES IN AGNs

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The study of the influence of numerous atomic and molecular processes may be of importance for diagnostic methods required to obtain physical conditions in the broadline region (BLR) of active galactic nuclei (Dimitrijević et al 2021, Srećković et al. 2020). Collisional ionization processes in atom-Rydberg atom collisions, along with the associated recombination processes, have been studied and reported among several collisional reactions. In moderately ionized plasma layers, these processes have an impact on ionization and the populations of hydrogen excited atoms. From the results it follows that the investigation of these processes is of interest for the research and modelling of such a medium.

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References

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