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Are temperature fluctuations out there?

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Abstract

The effect of temperature fluctuations in the spectra of ionized nebulae was firstly explored by Peimbert (1967). Since then, the problem of their existence has remained an open question. In fact, there are observations and models that argue both in favor and against such fluctuations and these are reviewed in this paper. We also discuss the mechanisms that could produce such fluctuations and their possible presence and effects in extragalactic objects.

Keywords

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