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Are temperature fluctuations out there?

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Abstract

The e ect of temperature uctuations in the spectra of ionized nebulae was rstly 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 uctuations and these are reviewed in this paper. We also discuss the mechanisms that could produce such uctuations and their possible presence and e ects in extragalactic objects.

Keywords

H II REGIONS | ISM: ABUNDANCES | PLANETARY NEBULAE



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