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The fluorine production in AGB stars: observational and theoretical problems

The origin of fluorine is a longstanding problem in nuclear astrophysics. Asymptotic Giant Branch (AGB) stars and core collapse supernovae are accepted to be the most important contributors to the Galactic fluorine production, although only in AGB stars there is observational evidence of its production. Nevertheless, extant nucleosynthesis models overestimate the fluorine production with the respect to observations mainly in low metallicity AGB stars. In this talk, I will briefly discuss the relevant theoretical and observational issues involved in the fluorine production/destruction in these stars.

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