Influence of external radiation on non-LTE opacities of Xe

MARCEL KLAPISCH, MICHEL BUSQUET, ARTEP, Inc., Ellicott City, MD 21042 —

In Laboratory Astrophysics, where astrophysics phenomena are scaled down to the laboratory, Xenon is commonly used. In most cases, astrophysical plasmas are not dense enough to warrant LTE. However, they are surrounded by radiation fields. Extensive detailed level computations of non-LTE Xe around Te = 100 eV were performed with HULLAC [1], with different radiation temperatures and/or dilution factors. Generally, the effects are very important, even with small dilution factors.


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