



1. Title:	Influence of configuration interaction on satellite lines and on emission of EUV plasmas
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3. Abstract body:

We show that configuration interaction has a strong influence on doubly excited configurations of Pd- to Rb-like ions of Xenon and Tin.

A strong narrowing and shift of the satellite 4p / 4f - 4d group of lines occur. The emissivity and opacity are locally enhanced. A simple spherical autosimilar hydro-radiative model shows that the radiative efficiency and the hydrodynamic expansion are widely enhanced when configuration interaction is taken into account. Specifically, in the case of EUV emission at 13.5 nm for nanolithography, the calculated maximum conversion efficiency doubles to 10 percents when configuration interaction is included in satellite lines for a 3.09ns, 0.8J, 1.06 micro-m laser.