Poster

## SIMULATION CALCULATIONS OF LINE SHAPES IN PRESENCE OF LANGMUIR TURBULENCE

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An atom immersed in a plasma affected by strong Langmuir turbulence may be perturbed by a sequence of wave packets with a maximum electric field amplitude large compared to the equilibrium plasma microfield (R. Stamm et al., this volume). For such conditions, we propose to calculate the line shape of Lyman alpha with a numerical integration of the Schroedinger equation coupled to a simulation of a sequence of electric fields modeling the effects of the wave packets. Several line profiles will be presented for different maximum amplitude and jumping frequency of the sequence of wave packets.