

# **KINETIC APPROACH TO PLASMA WAVE GENERATION BY SHORT LASER PULSE**

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Using nonlinear currents, obtained by kinetic description taking into account electron-ion collision, plasma waves generation had been studied. It is shown, that nonlinear current arising due to ponderomotive force action is the main source of plasma waves generation. Plasma waves generation by nonlinear current arising due to drag force action usually is less effective, but not negligibly small if electron-ion collision frequency is not too small compare to electron plasma frequency.