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Oceanography and Atmospheric Sci. » Atmospheric Physics

### Basis of Ionospheric Modification by High-Frequency Waves

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**Abstract:** The requirements of achieving ionospheric modification by ground-transmitted HF heating waves are discussed. The directly relevant processes including linear mode conversion and parametric instabilities are explained physically. The nonlinear & Schrodinger equation for Langmuir waves is reviewed and the initial conditions of two types of nonlinear solutions are discussed; from which the criterion for Langmuir soliton generation is pointed out.

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