

SCATTERING PROCESSES
OF ELECTROMAGNETIC WAVES
IN MAGNETIZED PLASMA
WITH UPPER HYBRID PUMP

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S u m m a r y

Scattering of a transverse electromagnetic wave by turbulent density fluctuations in an homogeneous magnetoactive plasma in the presence of an upper hybrid (UH) pump wave is investigated. We consider the case the UH pump wave decays into daughter and low-frequency waves, such as modified convective cells and ion-sound oscillations. It is shown that, for typical parameters of ionospheric and hot plasma, the differential cross-section depending on pump wave amplitude exceeds the terms due to the thermal noise scattering by several orders of magnitude.