

## Whistler And Alfv N Mode Cyclotron Masers In Space

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### Whistler And Alfv N Mode

Whistler and Alfvén mode cyclotron masers in space. [V èlìU Trakhtengerëtis; Michael J Rycroft] -- The subject of wave-particle interactions occurring in space plasmas has developed strongly, both observationally and theoretically, since the discovery of the Van Allen radiation belts of energetic ...

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forty years ago.

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Whistler and Alfvén Mode Cyclotron Masers in Space by V. Y. Trakhtengerts, 9780521871983, available at Book Depository with free delivery worldwide.

## **Whistler and Alfvén Mode Cyclotron Masers in Space : V. Y ...**

Preface; 1. Introduction; 2. Basic theory of cyclotron masers (CMs); 3. Linear theory of the cyclotron instability (CI); 4. Backward wave oscillator (BWO) regime in CMs; 5. Nonlinear cyclotron wave-particle interactions for a quasi-monochromatic wave; 6. Nonlinear interaction of quasi-monochromatic whistler mode waves with gyroresonant electrons in an inhomogeneous plasma; 7.

## **Whistler and Alfvén Mode Cyclotron Masers in Space - NASA/ADS**

The whistler mode waves periodically appeared at each cycle of the ion-scale waves, and the electron distribution functions associated with the whistler mode waves showed enhancement in the direction parallel to background magnetic field. ... A likely candidate of the ion-scale wave is the kinetic Alfvén wave, which

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can generate the ...

## **Modulation of Whistler Mode Waves by Ion-Scale Waves**

...

In the 1960s there began a remarkable series of experiments involving controlled injection of whistler-mode signals into the magnetosphere and study of the mechanism by which the spectra of the waves were apparently altered by the hot plasma of the magnetosphere. This work was initially dependent upon signals from existing communication and ...

## **Introduction to Whistler Waves in the Magnetosphere ...**

A lot of theoretical and simulation work has been done to study the nonlinear interaction between whistler wave and kinetic Alfvén wave. The role of whistler waves has been effectively analyzed to study the subproton turbulence in a collisionless plasma [Boldyrev et al., 2013]. They have presented the dynamics of whistler and kinetic Alfvén modes in linear as well as nonlinear regime at subproton scales.

## **Nonlinear interaction of 3D kinetic Alfvén wave and ...**

Whistler and Alfvén Mode Cyclotron Masers in Space (Cambridge Atmospheric and Space Science Series) 1st Edition by V. Y. Trakhtengerts (Author), M. J. Rycroft (Author)

## **Whistler and Alfvén Mode Cyclotron Masers in Space ...**

mode (Alfvén/ion-cyclotron wave or fast-magnetosonic/whistler wave) and its propagation direction (along or against the magnetic field) in the plasma frame. Using Magnetospheric Multiscale spacecraft...

## **(PDF) Identification of the Nature of Electromagnetic ...**

Whistler mode waves can be decayed to other modes, such as the ion acoustic wave (e.g., Forslund et al. 1972; Shukla et al. 1975), the kinetic Alfvén wave (e.g., Sharma et al. 1986), and the Langmuir wave (e.g., Chian et al. 1994).

## **PARAMETRIC INSTABILITY OF WHISTLER WAVES IN THE ELECTRON ...**

find that the whistler mode is persistently present both in the

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2-D and 3-D simulations irrespective of the initial setup, e.g., the amplitude of the initial pumping waves, while all the other modes are excited and damped such that the energy is efficiently transported to thermal energy over non-whistler

## **On the role of ion-scale whistler waves in space and ...**

These modes can also couple to each other and with other different plasma wave modes, and therefore they can excite other frequency range modes such as ion acoustic waves and whistler waves. Alfvén waves can exhibit so interesting behaviours that even now after so many years of its discovery it is still fascinating and it is challenging plasma physicist, from the different plasma communities; as from astrophysics, stellar, space, fusion, and technological areas, to still study and enjoy them ...

## **The Alfvén Wave Zoo**

[en] Jupiter ; Io ; Ion cyclotron waves ; Alfvén waves ; Wave-particle interaction ; Whistler-mode waves: Abstract : [en] The electrodynamic coupling between Io and Jupiter gives rise to wave-particle interactions across multiple spatial scales. Here we report observations during Juno's 12th perijove (PJ) high-latitude northern crossing of ...

## **Wave-particle interactions associated with Io's auroral ...**

Nonlinear excitation of kinetic Alfvén waves and whistler waves by electron beam-driven Langmuir waves in the solar corona ... other studies suggest that the KAW mode cannot carry the turbulence ...

## **Nonlinear Interaction of 3D Kinetic Alfvén Wave and ...**

In the current sheet (CS), electromagnetic whistler mode waves (approximately 10-80 Hz) and compressional Alfvén waves (<2 Hz) are detected with flat-topped electron distributions whose cutoff speeds are approximately  $15-17 \times 10^3$  km s<sup>-1</sup>.

## **Counterstreaming beams and flat-top electron distributions ...**

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