

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 (Cambridge Atmospheric and Space Science Series) V. Y. Trakhtengerts, M. 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 charged particles trapped in the Earth's magnetosphere over forty years ago.

Whistler and Alfvén Mode Cyclotron Masers in Space ...

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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 can generate the ...

Modulation of Whistler Mode Waves by Ion-Scale Waves ...

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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

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 ...

[3] Whistler is an extraordinary mode of electromagnetic wave propagation in magnetized plasmas. There are many physical phenomena in which one encounters whistler wave turbulence; examples include turbulence excited by energetic particles in the radiation belts of Earth's magnetosphere [Kennel and Engelmann , 1966] and waves excited in the ...

Whistler propagation and modulation in the presence of ...

At electron kinetic scales, whistler-mode turbulence dissipates through the cyclotron and Landau resonances of the electrons. These resonant interactions depend on the propagation angle of the whistler fluctuation, so a preferred resonance in whistler-mode turbulence depends on the direction of cascading of fluctuation energy.

Generation of intermittent ion acoustic waves in whistler ...

Definition. An Alfvén wave in a plasma is a low-frequency (compared to the ion cyclotron frequency) travelling oscillation of the ions and the magnetic field. The ion mass density provides the inertia and the magnetic field line tension provides the restoring force.. The wave propagates in the direction of the magnetic field, although waves exist at oblique incidence and smoothly change into ...

Alfvén wave - Wikipedia

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In this paper the evolution of nonlinear scattering of whistler mode waves by kinetic Alfvén waves (KAW) in time and two spatial dimensions is studied analytically. The authors suggest this nonlinear process as a mechanism of kinetic Alfvén wave generation in space plasmas.

Hybrid Alfvén resonant mode generation in the ...

In this paper the evolution of nonlinear scattering of whistler mode waves by kinetic Alfvén waves (KAW) in time and two spatial dimensions is studied analytically. The authors suggest this nonlinear process as a mechanism of kinetic Alfvén wave generation in space plasmas.

Nonlinear whistler wave scattering in space plasmas - UNT ...

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The dynamical response of electrons to distortions of the magnetic field in the unmagnetized ion limit is described by whistler-mode waves rather than Alfvén waves. Whistler-mode waves are...

Rapid magnetic reconnection in the Earth's magnetosphere ...

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