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Whistler and Alfvén mode cyclotron masers in space (eBook ...

This paper presents the modulation of whistler waves due to linear interactions between a weak whistler signal and a pump kinetic Alfvén wave (KAW) in intermediate??(me/mi ? ? ? 1) plasmas (where ?...

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

Whistler and Alfvén Mode Cyclotron Masers in Space Autor: V. Y. Trakhtengerts, M. J. Rycroft ...

Short-wavelength turbulence in the solar wind: Linear ...

with the eigenvector .This is just the electrostatic plasma wave which we found previously in an unmagnetized plasma. This mode is longitudinal in nature, and, therefore, causes particles to oscillate parallel to .It follows that the particles experience zero Lorentz force due to the presence of the equilibrium magnetic field, with the result that this field has no effect on the mode dynamics.

Whistler and Alfvén mode cyclotron masers in space (Book ...

Get this from a library! Whistler and Alfvén mode cyclotron masers in space. [V. Y. Trakhtengerts; 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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Whistler and Alfvén Mode Cyclotron Masers in Space by V. Y. Trakhtengerts, 9781107410565, available at Book Depository with free delivery worldwide.

Whistler turbulence heating of electrons and ions: Three ...

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Several wave modes, such as kinetic Alfvén mode, whistler mode, and nonlinear fluctuations, are considered to be dominant in the kinetic scales. Here we focus on nonlinear dynamics of whistler-mode turbulence. We have done two-dimensional electromagnetic particle-in-cell simulations to demonstrate the forward cascade of whistler-mode turbulence ...

(PDF) On the ordinary mode and whistler mode instabilities ...

A whistler is a very low frequency or VLF electromagnetic (radio) wave generated by lightning. Frequencies of terrestrial whistlers are 1 kHz to 30 kHz, with a maximum amplitude usually at 3 kHz to 5 kHz. Although they are electromagnetic waves, they occur at audio frequencies, and can be converted to audio using a suitable receiver. They are produced by lightning strikes (mostly intracloud and ...

Parallel Wave Propagation - farside.ph.utexas.edu

Mode theory which is the sum of eigen-modes in the Earth-ionosphere waveguide is valid in this range of distances. [5] [6] The wave modes have fixed vertical structures of their vertical electric field components with maximum amplitudes at the bottom and zero amplitudes at the top of the waveguide.

THE SLOW-MODE NATURE OF COMPRESSIBLE WAVE POWER IN SOLAR ...

For $\beta \ll 1$, [C] Alfvén β [C] whistler, and the latter quantity is of order 0.5 at whistler propagation strongly oblique to \mathbf{B}_0 . Such values of C are sometimes measured at

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relatively high frequencies and $\omega \approx 1$ in the solar wind; thus, it is concluded that such observations correspond to whistler mode turbulence. But other solar wind ...

Whistler and Alfvén Mode Cyclotron Masers in Space ...

Whistler and Alfvén Mode Cyclotron Masers in Space, by V. Y. Trakhtengerts and M. J. Rycroft. ISBN 978-0-521-87198-3. Published by Cambridge University Press, Cambridge, UK, 2008.

Whistler And Alfvén Mode

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Get this from a library! Whistler and Alfvén mode cyclotron masers in space. [V. Y. Trakhtengerts; Michael J Rycroft] -- "This is the first book to provide a full and systematic description of the physical theory of whistler and Alfvén cyclotron masers acting in planetary magnetospheres, and in the Sun's outer ...

Whistler propagation and modulation in the presence of ...

V. Y. Trakhtengerts, M. J. Rycroft, Whistler and Alfvén Mode Cyclotron Masers in Space Article (PDF Available) in Surveys in Geophysics 30(1):53-54 · February 2009 with 36

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On the ordinary mode and whistler mode instabilities in the degenerate anisotropic plasmas Article (PDF Available) in Physics of Plasmas 21(3) · February 2014 with 182 Reads How we measure 'reads'

Earth–ionosphere waveguide - Wikipedia

Although recent observations gave evidence of the dominance of kinetic Alfvén waves (KAWs) at sub-ion scales with $\omega < \omega_{ci}$, other studies suggest that the KAW mode cannot carry the turbulence cascade down to electron scales and that the whistler mode (i.e., $\omega > \omega_{ci}$) is more relevant.

(PDF) DO oblique ALFVÉN/ion-cyclotron or fast-mode ...

Although recent observations gave evidence of the dominance of kinetic Alfvén waves (KAWs) at sub-ion scales with $\omega < \omega_{ci}$, other studies suggest that the KAW mode cannot carry the turbulence cascade down to electron scales and that the whistler mode (i.e., $\omega > \omega_{ci}$) is more relevant.

Whistler (radio) - Wikipedia

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