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~~Plasmas by D. B. Melrose~~

D. B. MELROSE: Instabilities in Space  
and Laboratory Plasmas. Cambridge  
University Press, Cambridge, 1986. XII +  
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theory is introduced through a discussion  
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Nonlinear instabilities and strong  
turbulence; Part III. Collision-Dominated

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Dispersion in a magnetized plasma; 11.

Electron cyclotron maser emission; 12.

Instabilities in warm and in

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The role of drift turbulence in momentum

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Plasma is studied for conditions prevalent in some space and laboratory plasmas. A new approach is presented to analyze non-linear kinetic simulations and to extract the role of wave particle interaction in momentum creation. The approach is applied to the lower-hybrid drift instability where it is shown that the anomalous

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Plasmas resistivity generated does ...

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space and ...~~

Momentum creation by drift instabilities in  
space and laboratory plasmas B523 The  
temperature  $T_s$  and the drift velocity  $V_{ys}$   
are uniform and their ratio is determined

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by  $V_{yi}/V_{ye} = -T_i/T_e$ , as required by the diamagnetic nature of the drift. The plasma has a density  $n = n_0 \text{sech}^2(z/L)$  and a current  $j = 0$ ,  $B_0 = \mu_0 L \text{sech}^2(z/L)$ , 0  
(2)

~~Momentum creation by drift instabilities in space and ...~~

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Momentum creation by drift instabilities in  
space and laboratory plasmas

~~(PDF) Momentum creation by drift  
instabilities in space ...~~

The present analysis deals with the lower-  
hybrid-drift instability - a microinstability  
which has received attention as an



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Plasma anomalous transport mechanism in both laboratory and space plasmas.

~~(PDF) Momentum creation by drift  
instabilities in space ...~~

Earl is experienced in both laboratory and space plasmas. He has investigated high frequency turbulence and ion-cyclotron

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Instabilities at the University of Wisconsin-Madison and whistler heat flux driven instabilities at Los Alamos National Laboratory as a member of the Ulysses spacecraft plasma team.

~~Plasma and Space Physics | Department of  
Physics and ...~~

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The authors present observations of electromagnetic emissions near electron cyclotron harmonics from mirror-confined laboratory plasma during electron cyclotron resonance heating by microwaves, and attribute them to electron cyclotron instabilities.

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~~Phys. Rev. Research 2, 043272 (2020)~~

~~Observation of ...~~

The Center for Multiscale Plasma  
Dynamics and The Center for Magnetic  
Self-Organization is sponsoring a winter  
school on Instabilities in Laboratory,  
Space and Astrophysical Plasmas at  
UCLA on January 7th - 12th, 2008. The

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school consists of six days of coordinated lectures on the basic physics and outstanding questions for six plasma instabilities.

~~CMPD & CMSO Winter School 2008~~

Scientists have obtained, however, indirect evidence of plasmoid instabilities in outer

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space. Using telescopes and spectroscopes, as well as fusion facilities like PPPL's former flagship device known as the National Spherical Torus Experiment (NSTX), which has since been upgraded, scientists took photographs and analyzed light that hinted at the existence of the instabilities.

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~~PPPL physicists make first ever direct  
observation of ...~~

A new method for verifying a widely held but unproven theoretical explanation of the formation of stars and planets has been proposed by researchers at the U.S.

Department of Energy's (DOE) Princeton

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Plasma Physics Laboratory (PPPL). The method grows from simulation of the Princeton Magnetorotational Instability (MRI) Experiment, a unique laboratory device that aims to demonstrate the MRI

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~~Exploring the Source of Stars and Planets~~

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~~in a Plasma ...~~

Exploring the source of stars and planets  
in a laboratory Date: October 23, 2020

Source: DOE/Princeton Plasma Physics

Laboratory Summary: New computer  
simulation aims to verify a widely held but

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