

Electron Stream Interaction With Plasmas Mit Press

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Electron Stream Interaction With Plasmas

The study also analyzes the instabilities in unbounded beam-plasma systems and in systems of finite extent transverse to the electron stream and gives a detailed consideration of the possibility of a strong interaction with the ions in a hot-electron plasma.

Electron-Stream Interaction with Plasmas | The MIT Press

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Electron-Stream Interaction with Plasmas - MIT Press Books

Electron-Stream Interaction with Plasmas. Richard J. Briggs. M.I.T. Press, Cambridge, Mass., 1964. xii + 187 pp. Illus. \$7.50

Electron-Stream Interaction with Plasmas. Richard J ...

Electron-stream interaction with plasmas. [Richard J Briggs] -- This study considers the instabilities that result when an electron beam is injected into a plasma. A number of different models of the system are considered, and all instabilities are classified ...

Electron-stream interaction with plasmas (eBook, 1964 ...

In neutral plasmas, electrons form a screening background for the ions. When the electron screening length is comparable to the distance between particles, screening changes the ion dynamics (Bergeson et al., 2011; Lyon and Bergeson, 2011). The ion-ion interaction can be modeled using a Yukawa potential (see Eq. 5).

Electron Plasma - an overview | ScienceDirect Topics

An electron-positron plasma (pair plasma) behaves differently than an electron-ion plasma because electrons and positrons have the same mass,

creating a new system symmetry and invalidating the heavy-ion approximation central to analysis of a range of plasma phenomena. The vicinities of quasars, pulsars, and black holes are believed to harbor this exotic plasma, and ongoing experiments with ...

Electron-positron plasmas | Extreme Light-Matter ...

adshelp[at]cfa.harvard.edu The ADS is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement NNX16AC86A

Applied Physics. (Book Reviews: Electron-Stream ...

High-energy-density electron beam from interaction of two successive laser pulses with subcritical-density plasma J. W. Wang,^{1,2,*} W. Yu,² M. Y. Yu,^{3,4,†} H. Xu,⁵ J. J. Ju,² S. X. Luan,² M. Murakami,⁶ M. Zepf,^{1,7} and S. Rykovanov¹ 2 1 Helmholtz Institute Jena, Jena 07743, Germany State Key Laboratory of High Field Laser Physics, Shanghai ...

High-energy-density electron beam from interaction of two ...

Electron sheaths form near the surface of objects biased more positive than the plasma potential, such as a Langmuir probe collecting electron saturation current. Generally, the formation of electron sheaths requires that the electron-collecting area be sufficiently smaller ($\sqrt{2.3me/M}$ times) than the ion-collecting area. They are commonly thought to be local phenomena that collect the random ...

Electron Preheaths: The Outsized Influence of Positive ...

Laser interaction with near-critical plasmas (NCPs) ^{1,2} at relativistic intensities, i.e. high enough ($I > 10^{18}$ W/cm²) to accelerate electrons to relativistic energies in a single laser cycle ...

Ultra-intense laser interaction with nanostructured near ...

Electron-sheath interaction in capacitive radio-frequency plasmas Recent experimental and theoretical work on the interaction of electrons with a moving radio-frequency (rf) sheath has shown that this interaction is an important electron heating mechanism in capacitive rf plasmas.

Electron-sheath interaction in capacitive radio-frequency ...

It is well known that electron temperature, T_e , scaling is typically given by $T_e \propto I_L \lambda_L^2$, where I_L and λ_L are the laser intensity and the laser wavelength, respectively. ^{18 18.} I. C. E. Turcu and J. B. Dance, X-Rays from Laser Plasmas: Generation and Applications (Wiley, 1999), Chap. 4.

Electron temperature and soft x-ray intensity scaling in ...

Antonsen Channeling of intense optical fields in plasmas is a rapidly developing scientific area, with a number of possible applications including x-ray generation, harmonic conversion and electron acceleration. In the context of laser plasma accelerators, intense, ultrashort pulses of laser light are injected into a plasma and create a wake field that can be used to

Theory of Intense Laser Plasma Interactions | The ...

We report the first fully three-dimensional determinations of the bulk motions of ion and electron plasmas in Earth's magnetotail at geocentric radial distances near the lunar orbit. The two region...

Galileo observations of the motions of ion and electron ...

Breaking of Rotational Symmetry in Cylindrically Bounded 2D Electron Plasmas and 2D Fluids Eli Sarid,^{1,2} Catalin Teodorescu,³ Philip S. Marcus,⁴ and Joel Fajans¹ ¹Physics Department, University of California at Berkeley, Berkeley, California 94720-7300, USA ²Physics Department, NRCN, P.O.

Box 9001, Beer-Sheva 84190, Israel 3West Virginia University, P.O. 6315, Morgantown, West Virginia 26506 ...

Breaking of Rotational Symmetry in Cylindrically Bounded ...

In this paper, we describe micro-fabrication, RF measurements, and particle-in-cell (PIC) simulation modeling analysis of the 0.22 THz double-vane half period staggered traveling wave tube amplifier (TWTA) circuit. The TWTA slow wave structure comprised of two sections separated by two sever ports loaded by loss material, with integrated broadband input/output couplers. The micro-metallic ...

0.22 THz wideband sheet electron beam traveling wave tube ...

After the initial linear growth and saturation by the electron trapping, a portion of the initially trapped electrons becomes detrapped and moves ahead of the ion beam pulse forming a forerunner electron beam, which causes a secondary two-stream instability that preheats the upstream plasma electrons.

Generation of forerunner electron beam during interaction ...

In this analytical and computer simulation study we explore the dynamics of a narrow electron stream embedded in a magnetized plasma. The transverse dimension of the stream is envisioned to be on the order of the electron skin depth, as is appropriate to several problems of current interest (e.g., auroral beams, reconnection).

Dynamics of narrow electron streams in magnetized plasmas ...

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