

Abstract Submitted
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Oblique Electromagnetic Modes for a Hot REB in a Hot and Magnetized Plasma ANTOINE BRET, ETSII U Castilla la Mancha Ciudad-Real, CLAUDE DEUTSCH, LPGP Université Paris XI Orsay — A temperature-dependent fluid model[1] is used to explore the linear and oblique EM instabilities suffered by a hot REB entering a hot, dense and magnetized plasma. Temperatures are nonrelativistic. In the weak beam approximation, the magnetic field reduces every instabilities except the 2-stream one. In the high beam density regime, highly unstable oblique modes appear due to the magnetic field. In both cases, temperature effects are overcome by the magnetic field and uniform stabilization all over k space cannot be obtained.

[1]A. Bret and C. Deutsch Phys Plasmas, 13, 042106(2006).

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