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decade each to the
subfields of magnetic
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academic program in
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6 CHAPTER 1.

INTRODUCTION

According to the de
finition of the Debye

Length $D = (\frac{0kT}{e ne^2})^{1/2}$ (1.1)) $\log(D) =$

$\frac{1}{2} \log(\frac{0}{e^2}) + \frac{1}{2}$
 $\log(kT/e)$ (1.2)) $\log(kT) =$

$\log(n) + 2\log(D/7430)$
(kT in eV)(1.3) Then we

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can draw the solid
straight line in the
Figure?? with the Debye
length as parameter
ranged from 10⁻¹ to 10⁻⁷.
Points on a certain
solid line,

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plasma's temperature
and density. An ideal
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particles per Debye sphere, i.e. $N_D = \frac{4}{3} \pi n_e D^3$; (8) which is a prerequisite for the collective behaviour discussed earlier. An alternative way of expressing this condition is via the so-called plasma parameter $\Lambda = \frac{1}{n_e D^3}$; (9) which is essentially the reciprocal of N_D . Classical plasma theory is based on the assu

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by the hand"- going
through particle
motions, gyro-
frequencies, adiabatic
invariants etc., to
magnetic mirror systems
(including loss cone
angles and Fermi
accelerations applied to
them) to plasma
instabilities and MHD,
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are magnetized, Chen showed that radiofrequency gas discharges contain very interesting physics which can be treated in a logical and interesting manner. Chen's 57-year career in plasma physics can be divided into four approximately equal parts: magnetic fusion, laser fusion and laser accelerators, low-

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