

GRENOBLE 1982 ICRH POSTER PAPER

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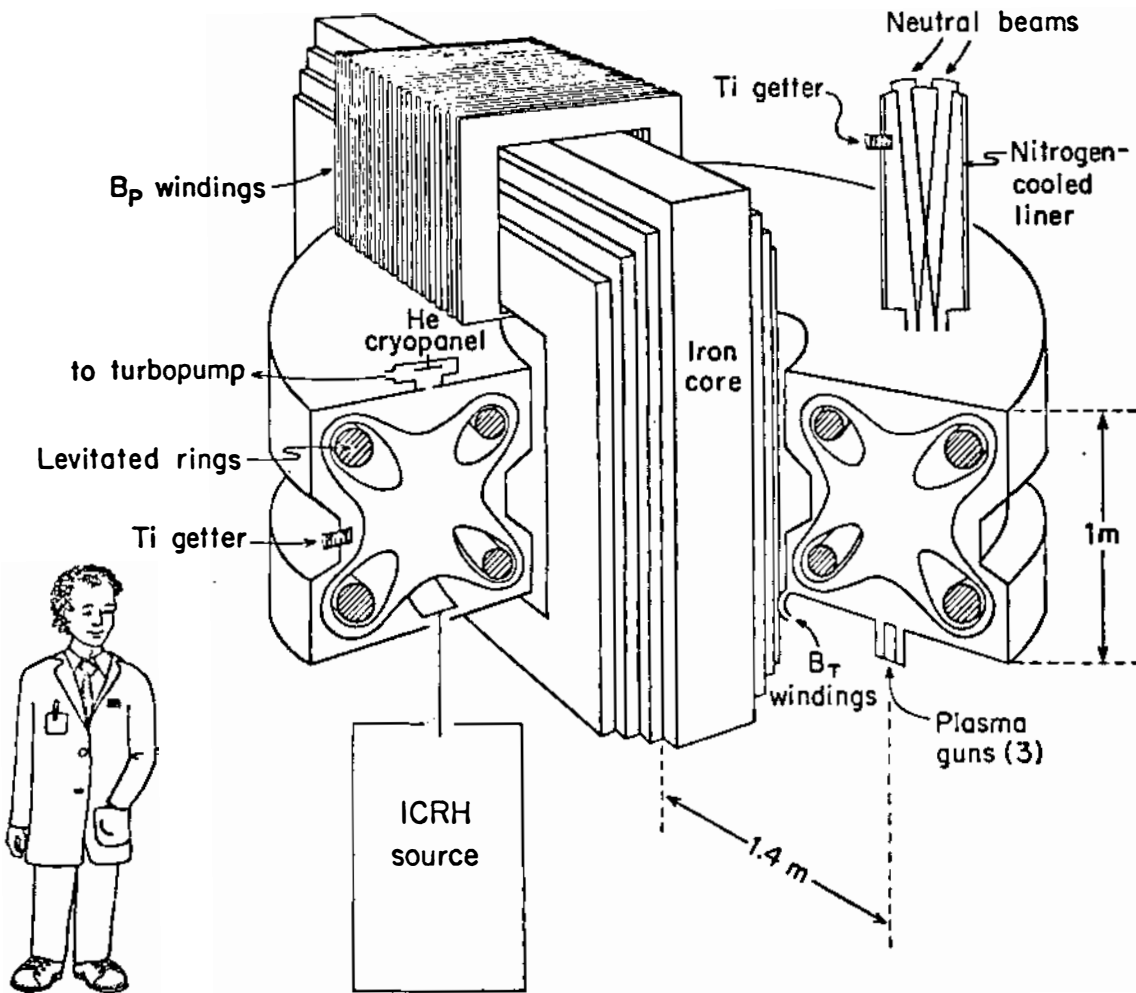
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Plasma Studies

University of Wisconsin

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## WISCONSIN LEVITATED OCTUPOLE



# TYPICAL SINGLE SHOT PARAMETERS

- $P_{in} = 0.8$  MW

- $N = 5 \times 10^{12}$  cm<sup>-3</sup>

- $N_h/N_o = .5$

- $T_o = 40$  eV

- $T_{ions} = 60$  eV cold component  
300 eV hot component

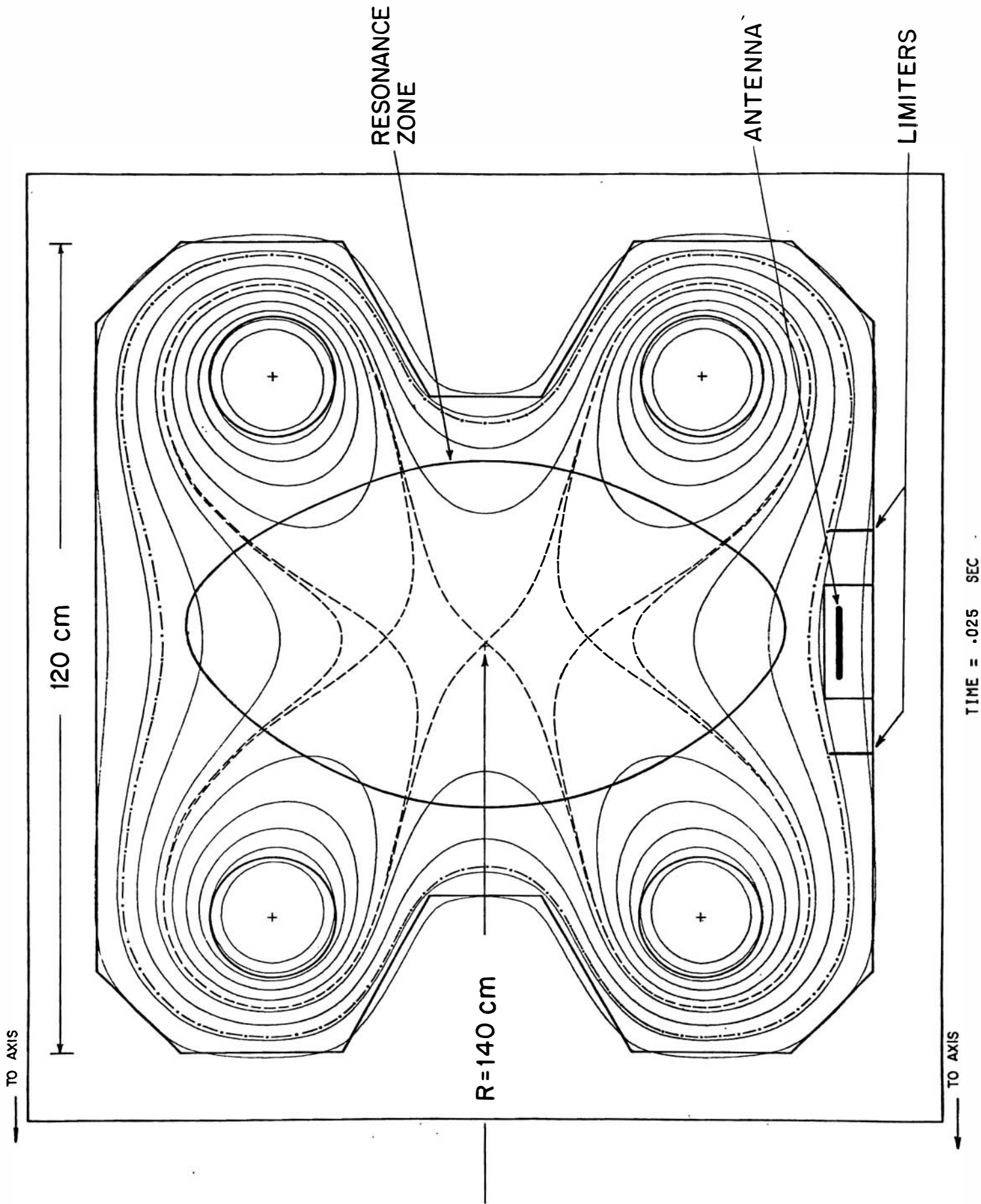
- $B = 1.0$  kG at antenna  
2.5 kG at outer ring

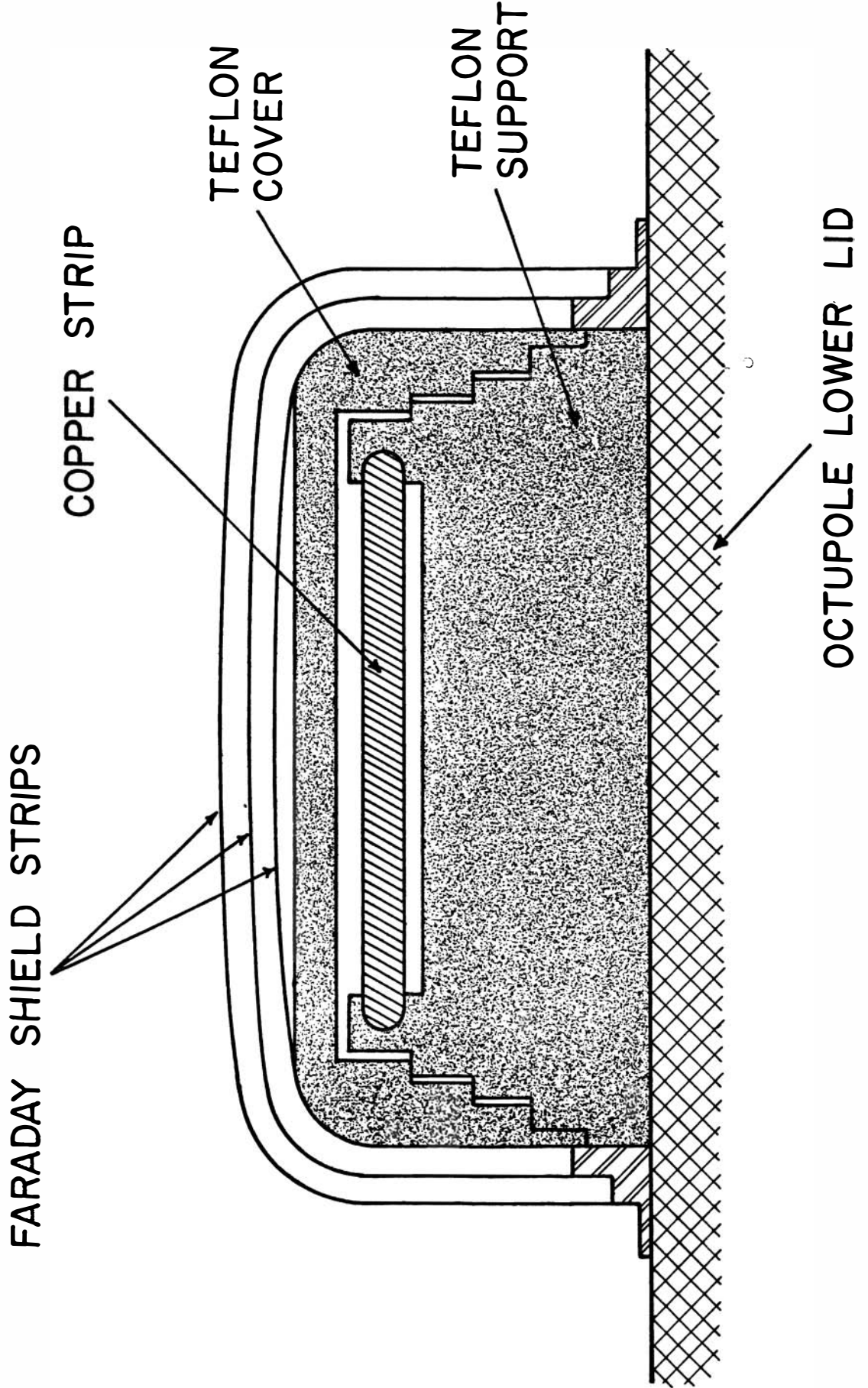
-10 gyroradii at 300 eV

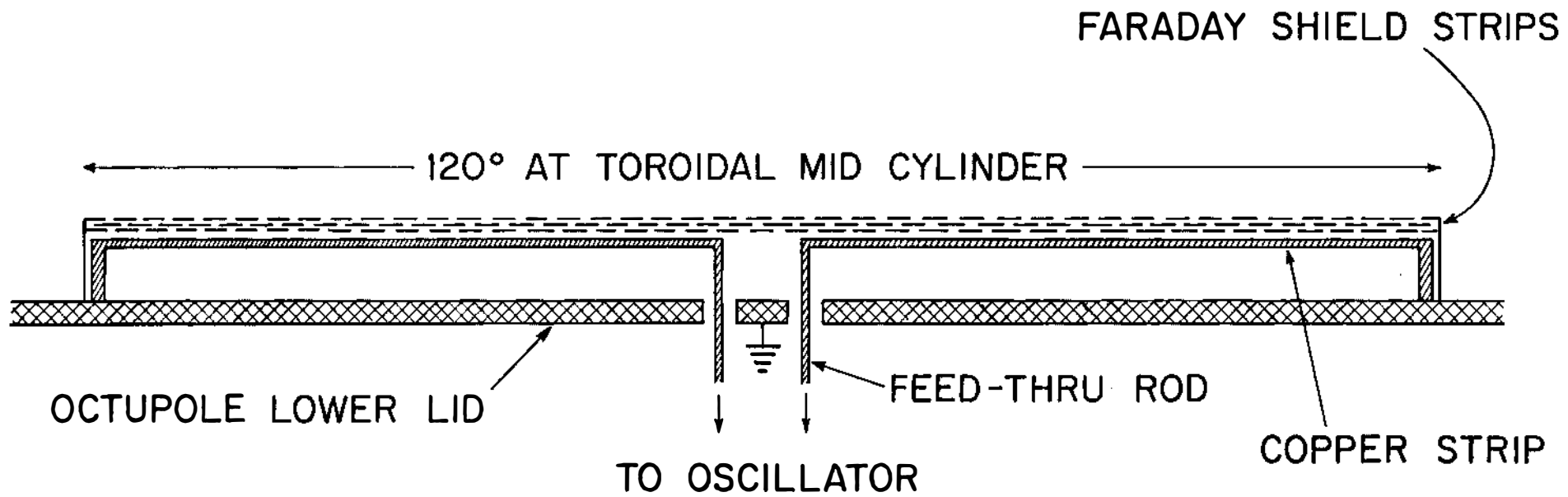
-ion energy confinement  
time = 1.0 msec (measured)

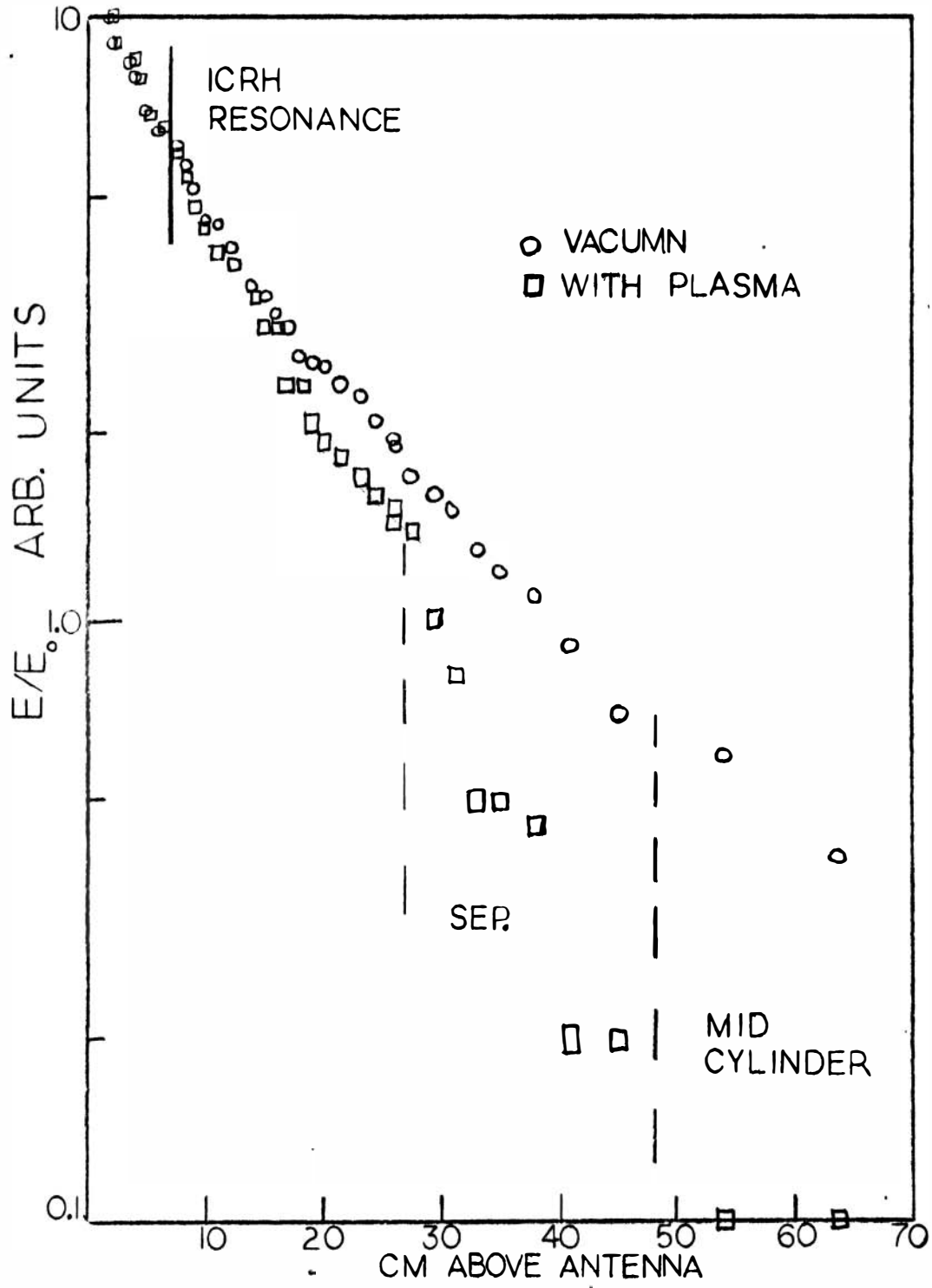
-ion-electron equilibration  
time = 0.8 msec (calc.)

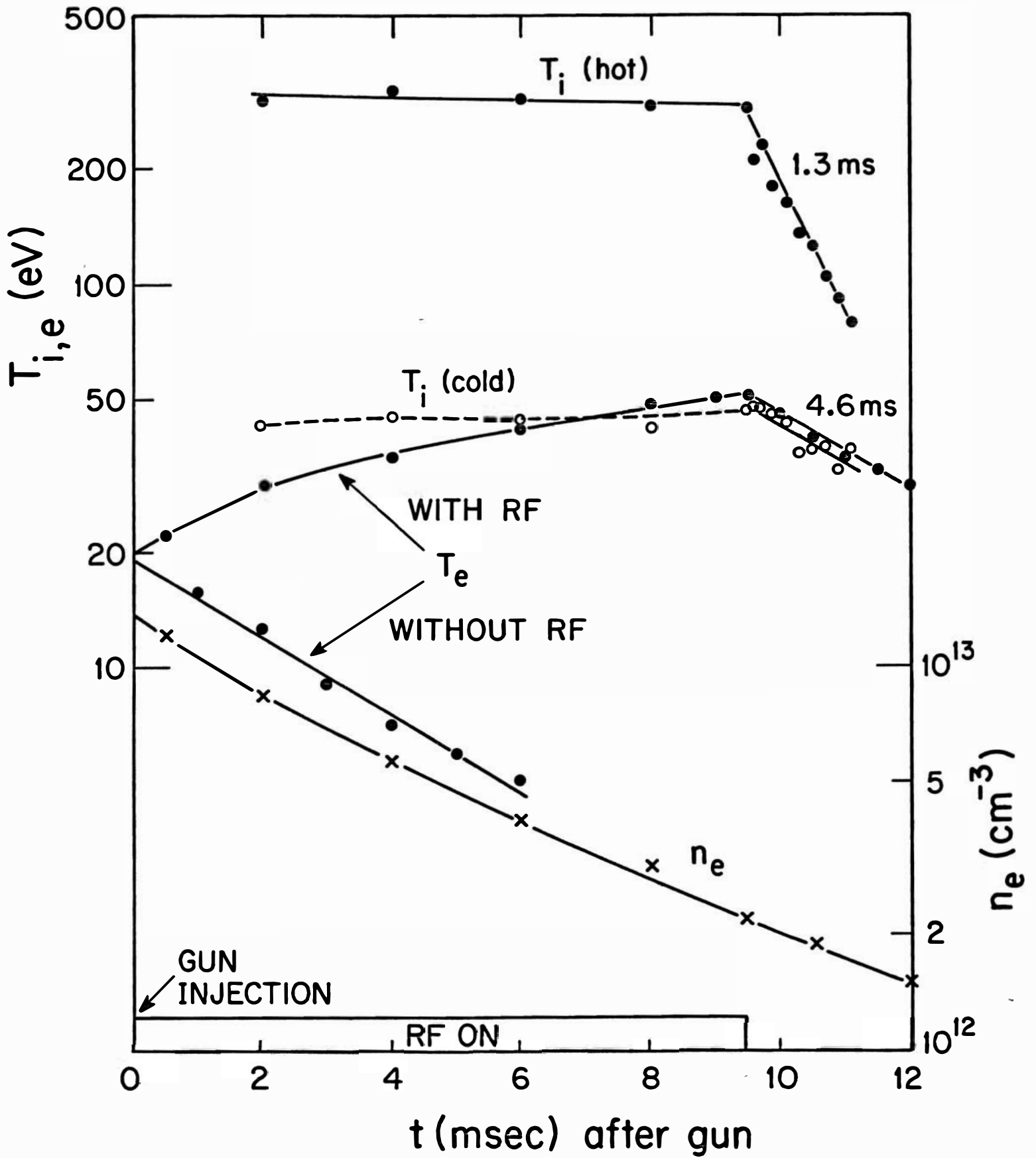
-hot-cold ion equilibration  
time = 0.9 msec (calc.)



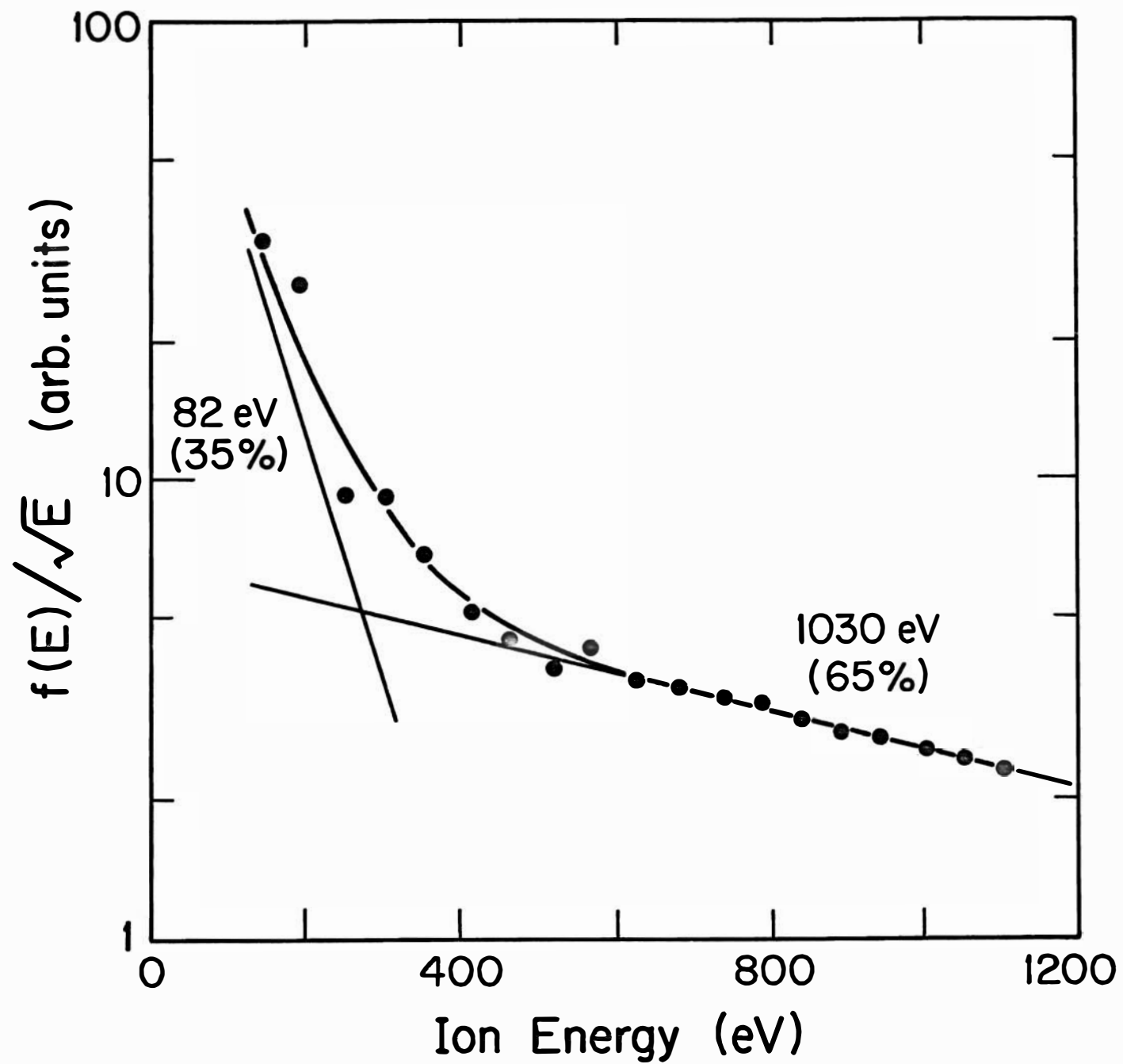


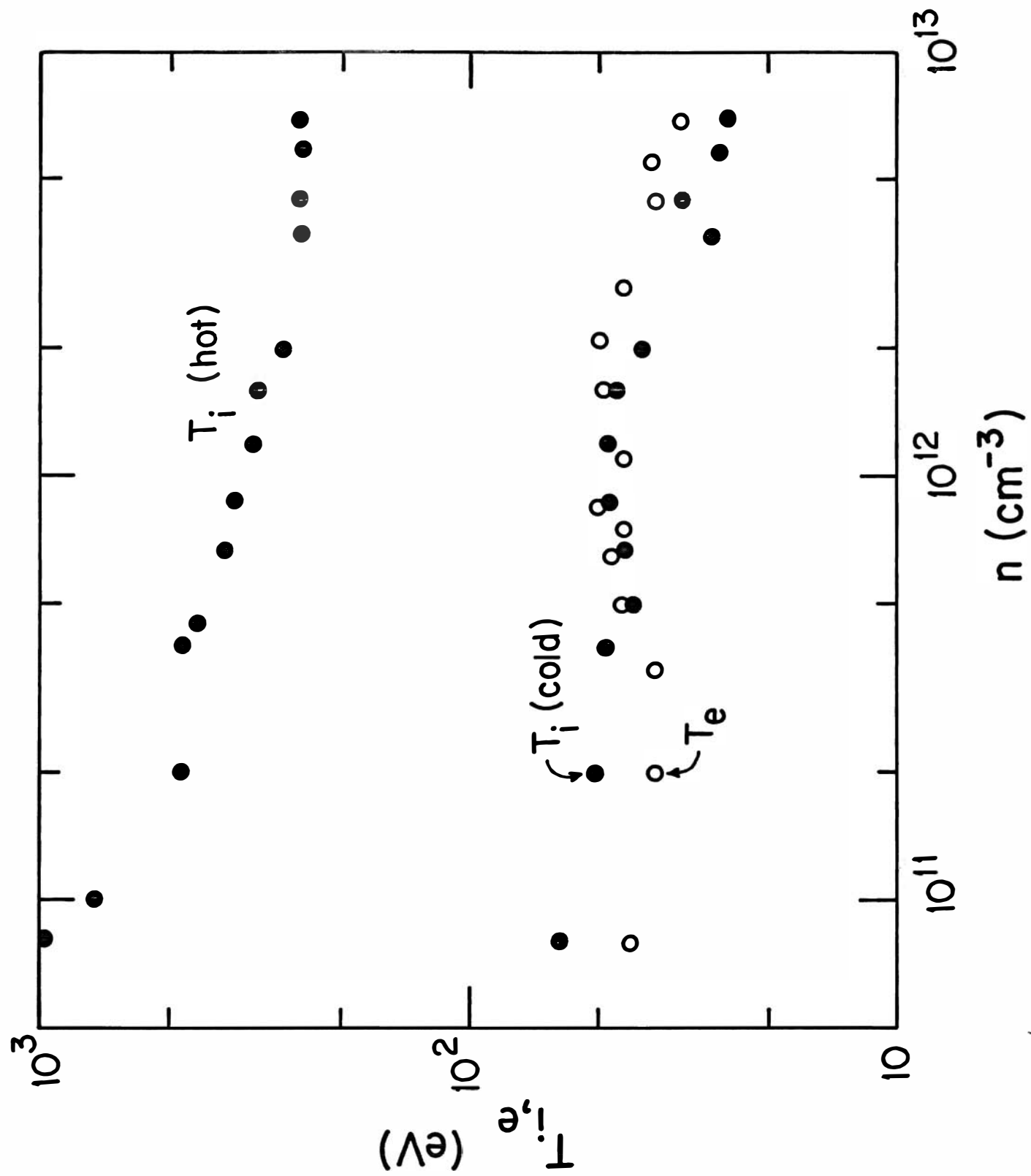


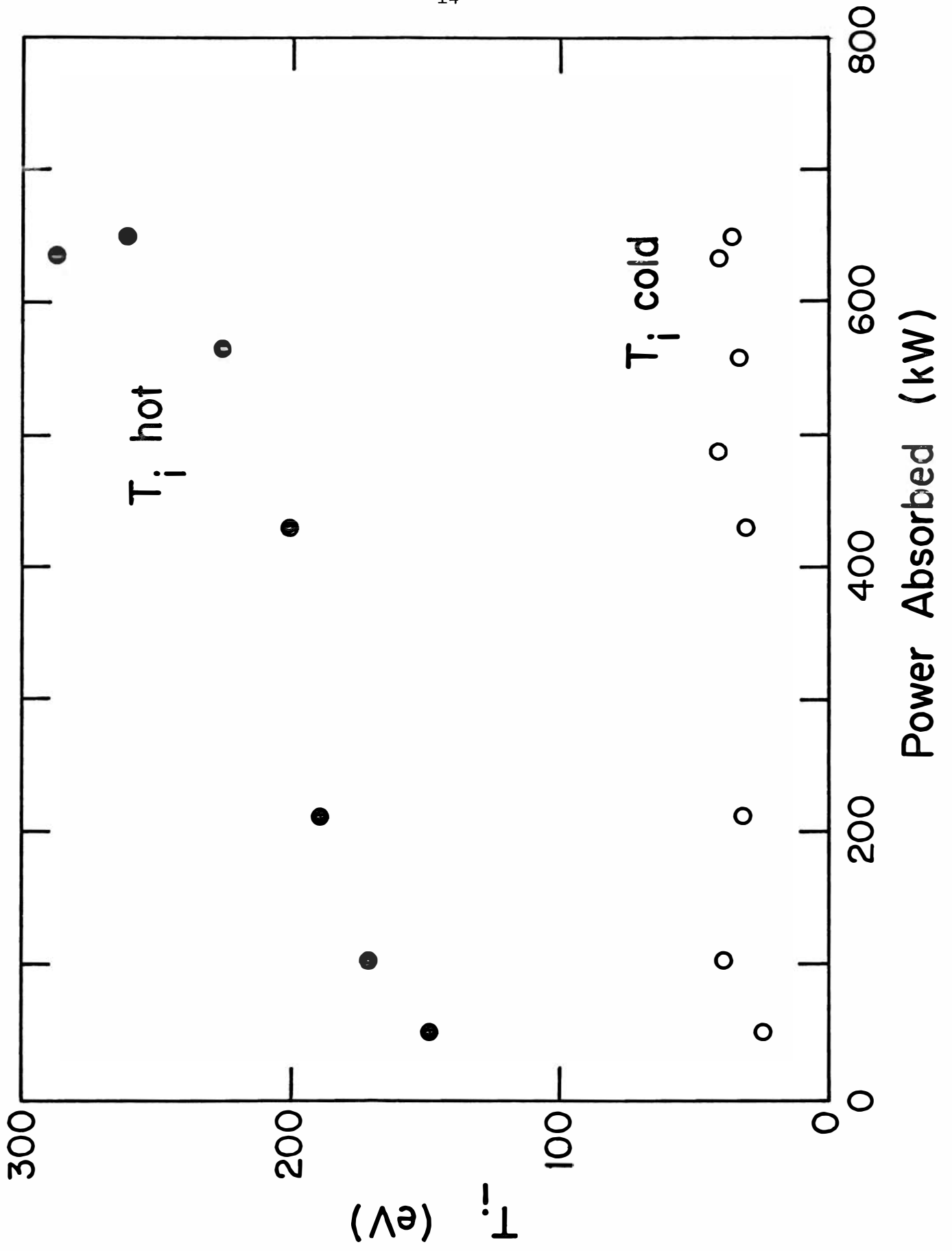


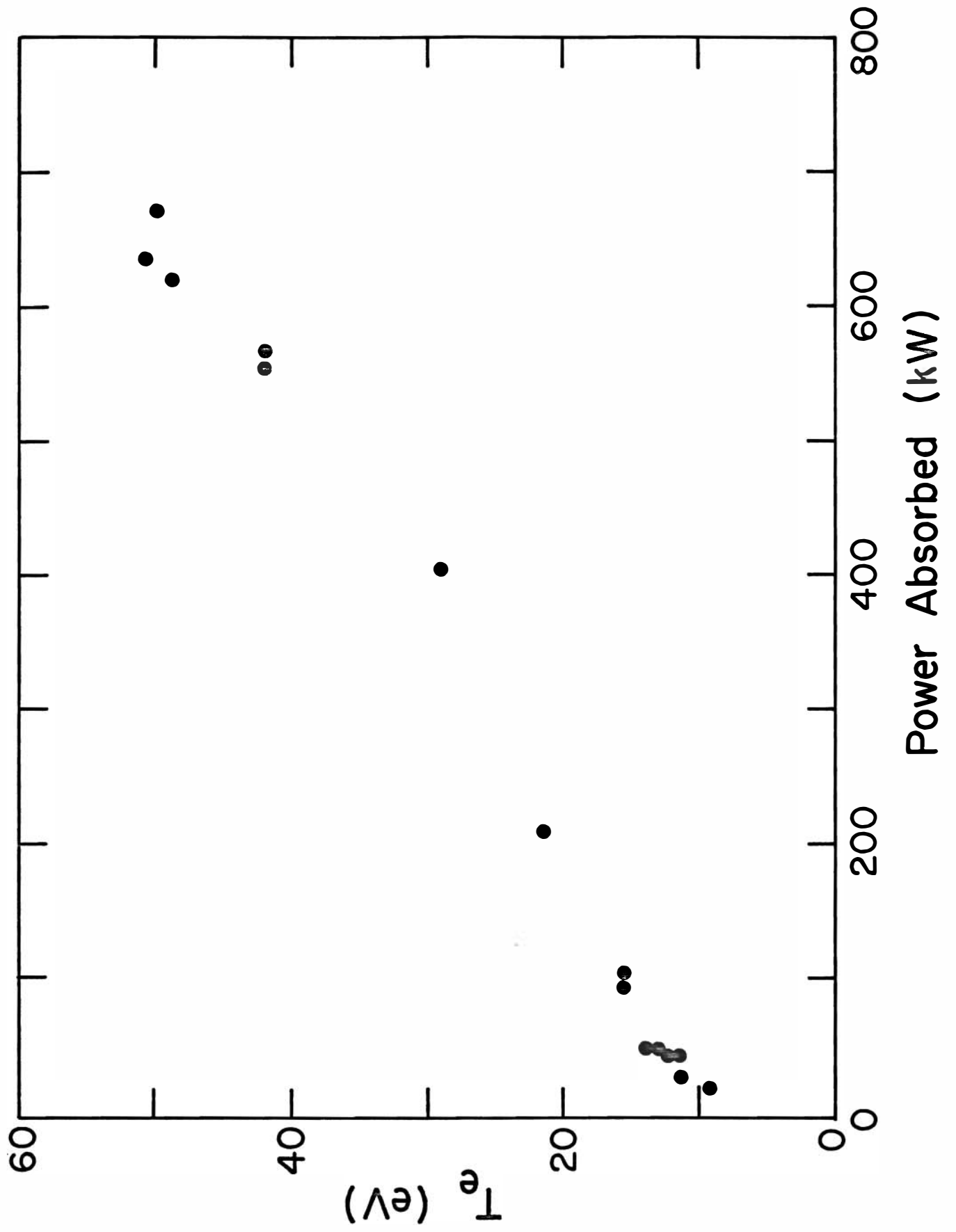


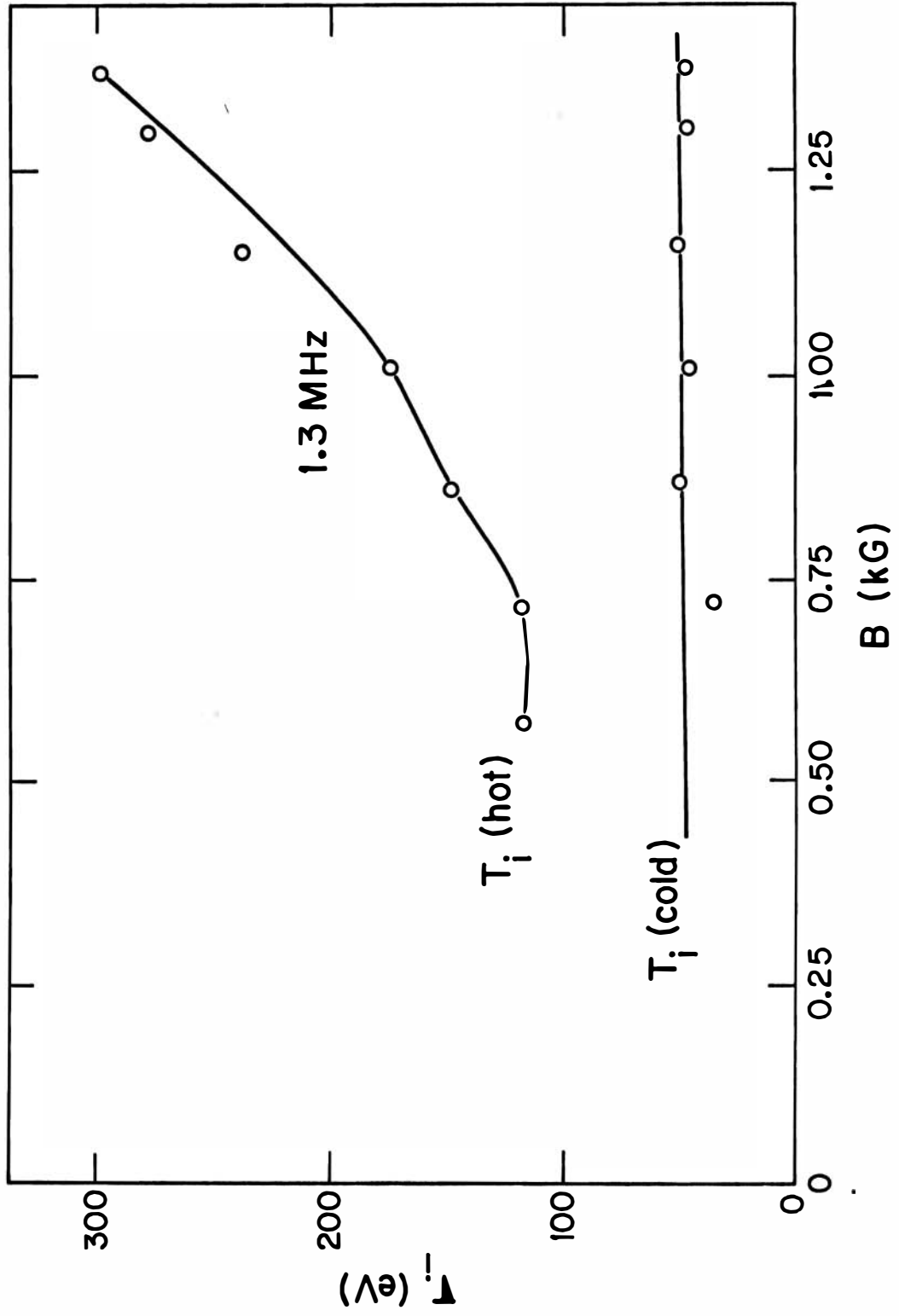


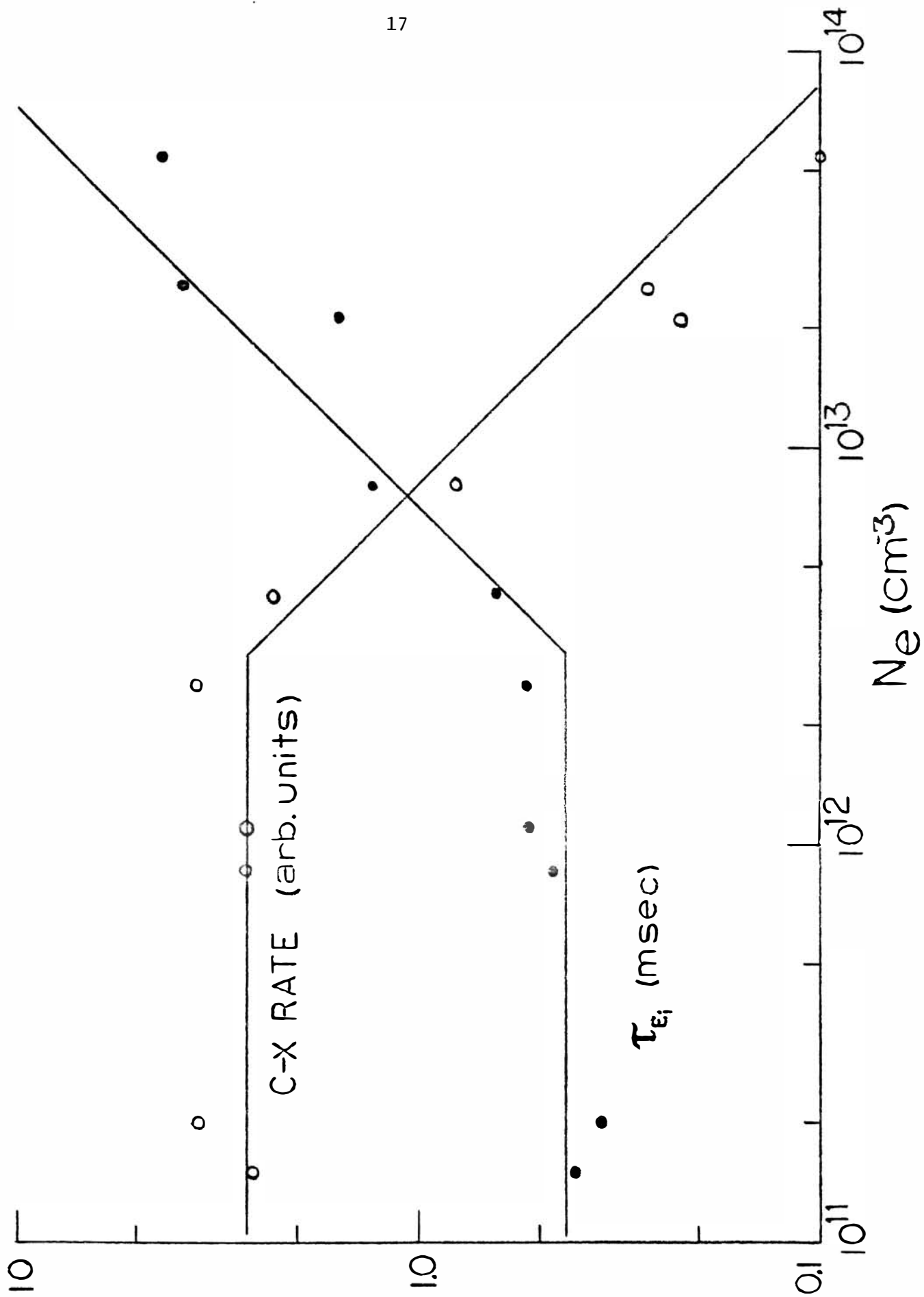


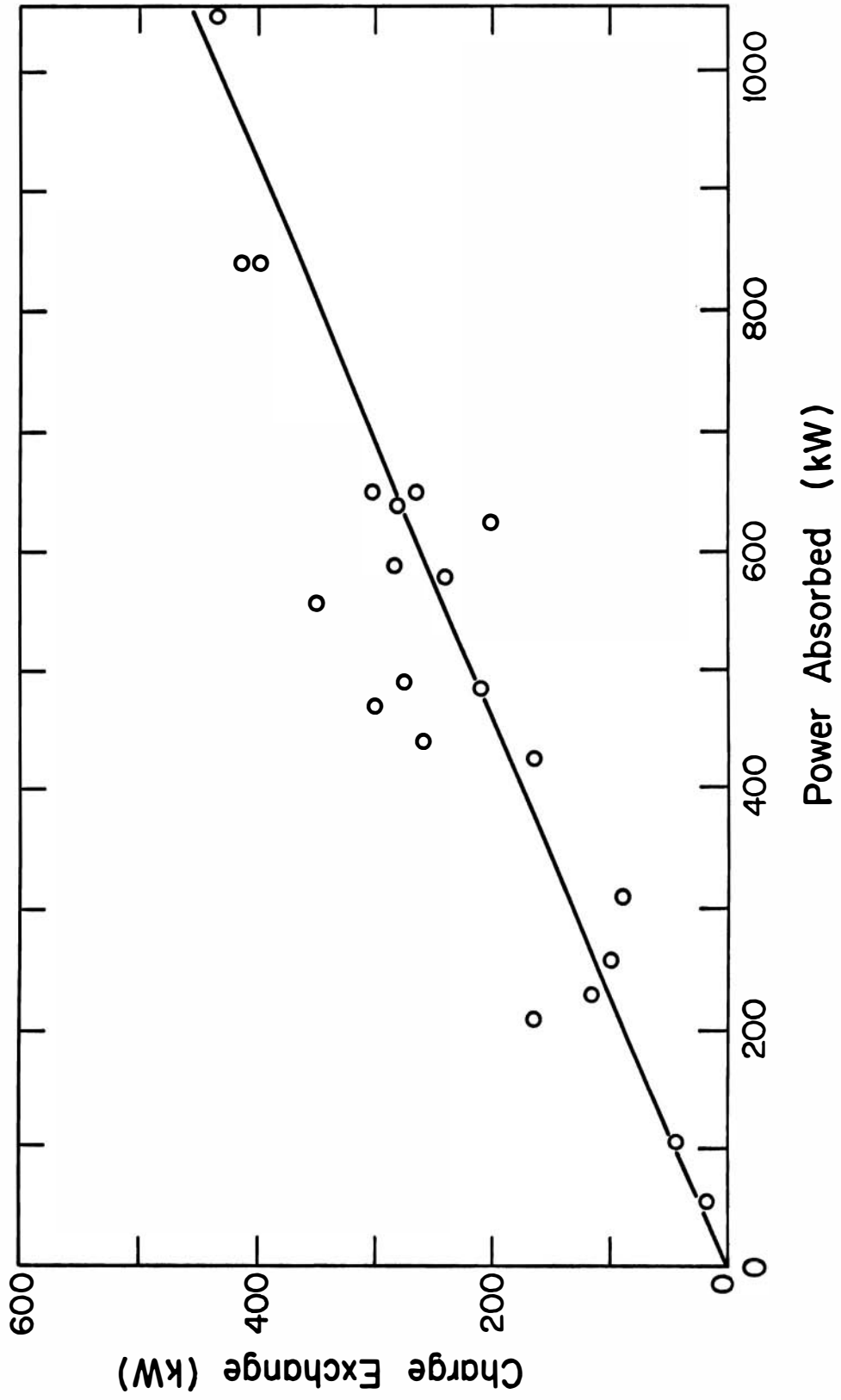












# POWER BALANCE

