



# ASTR/PHYS 5590: High Energy Astrophysics



## Week 5

HW03 due on Thursday

Chapter 8: Synchrotron Radiation

Chapter 9: Other High Energy Processes / Radiation



# Cyclotron -> Synchrotron

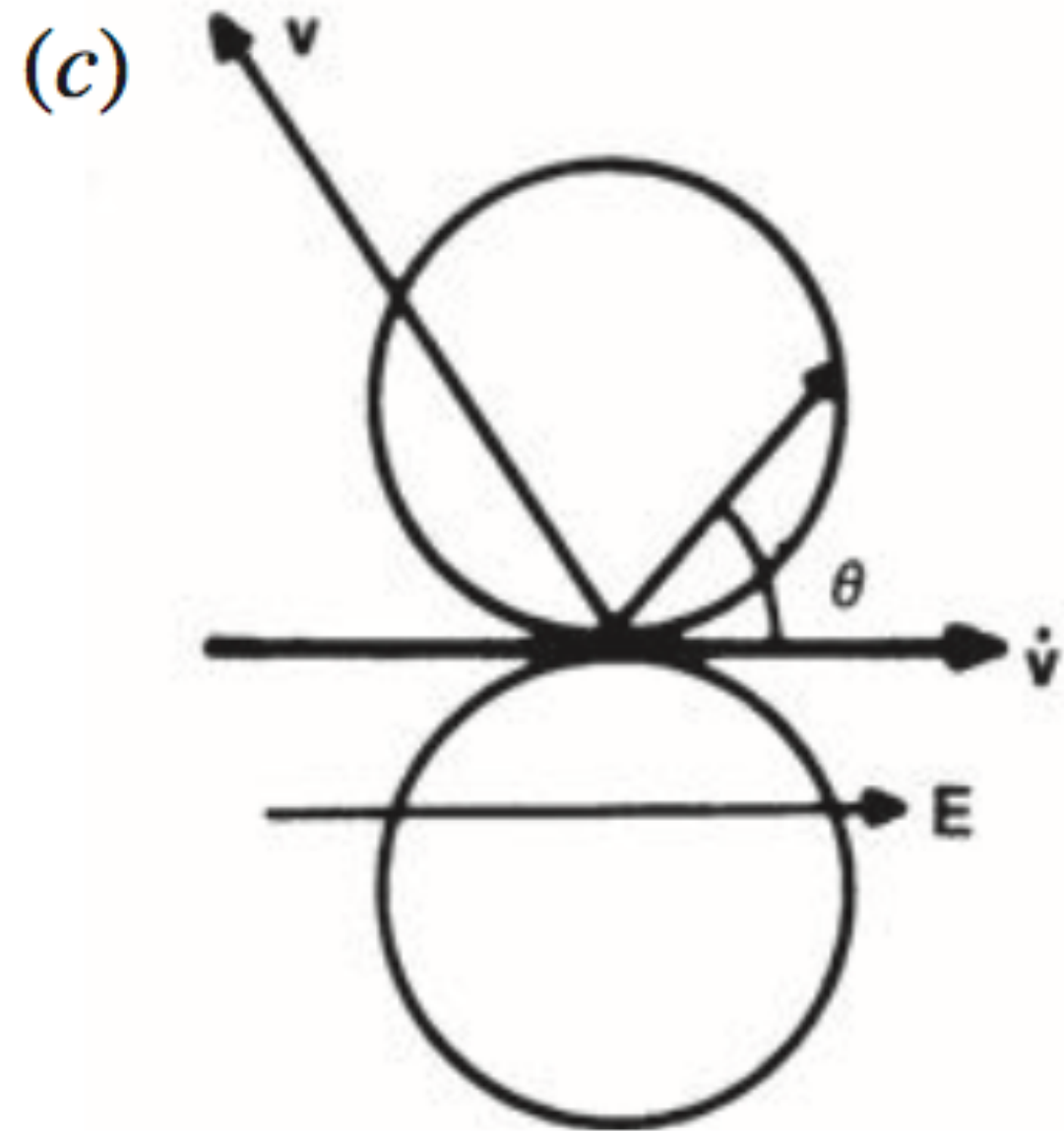


Fig. 6.1

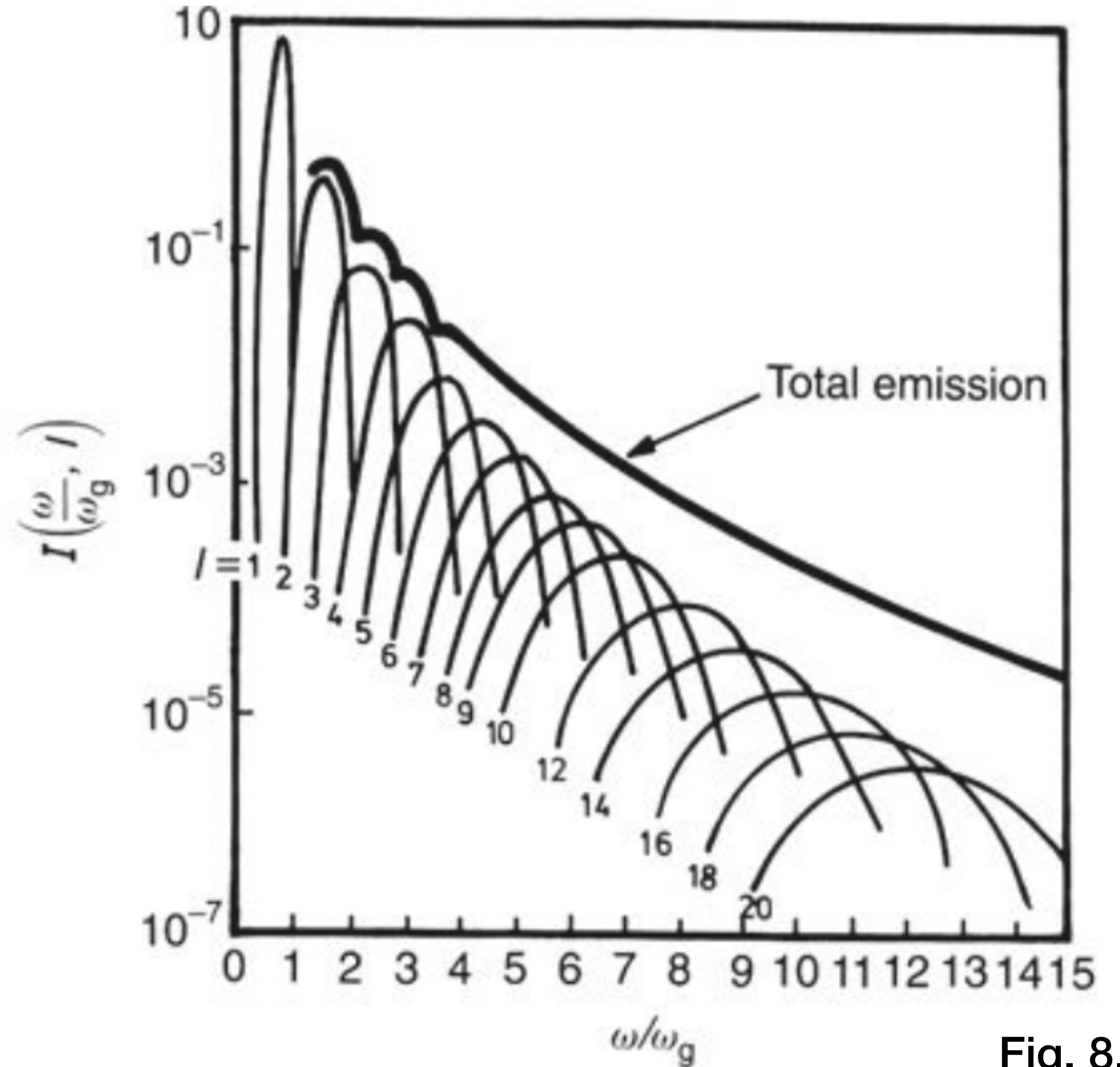


Fig. 8.2

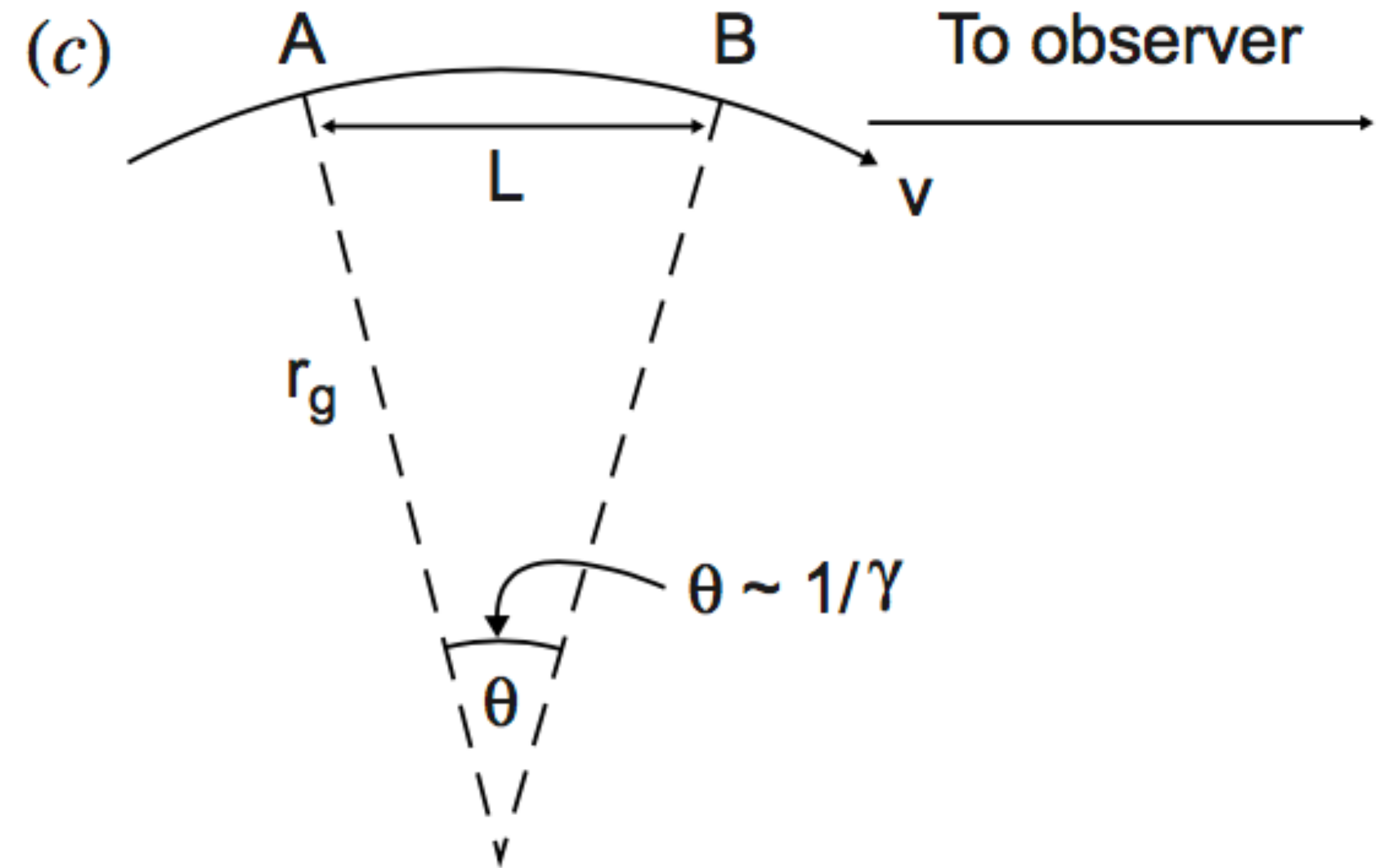
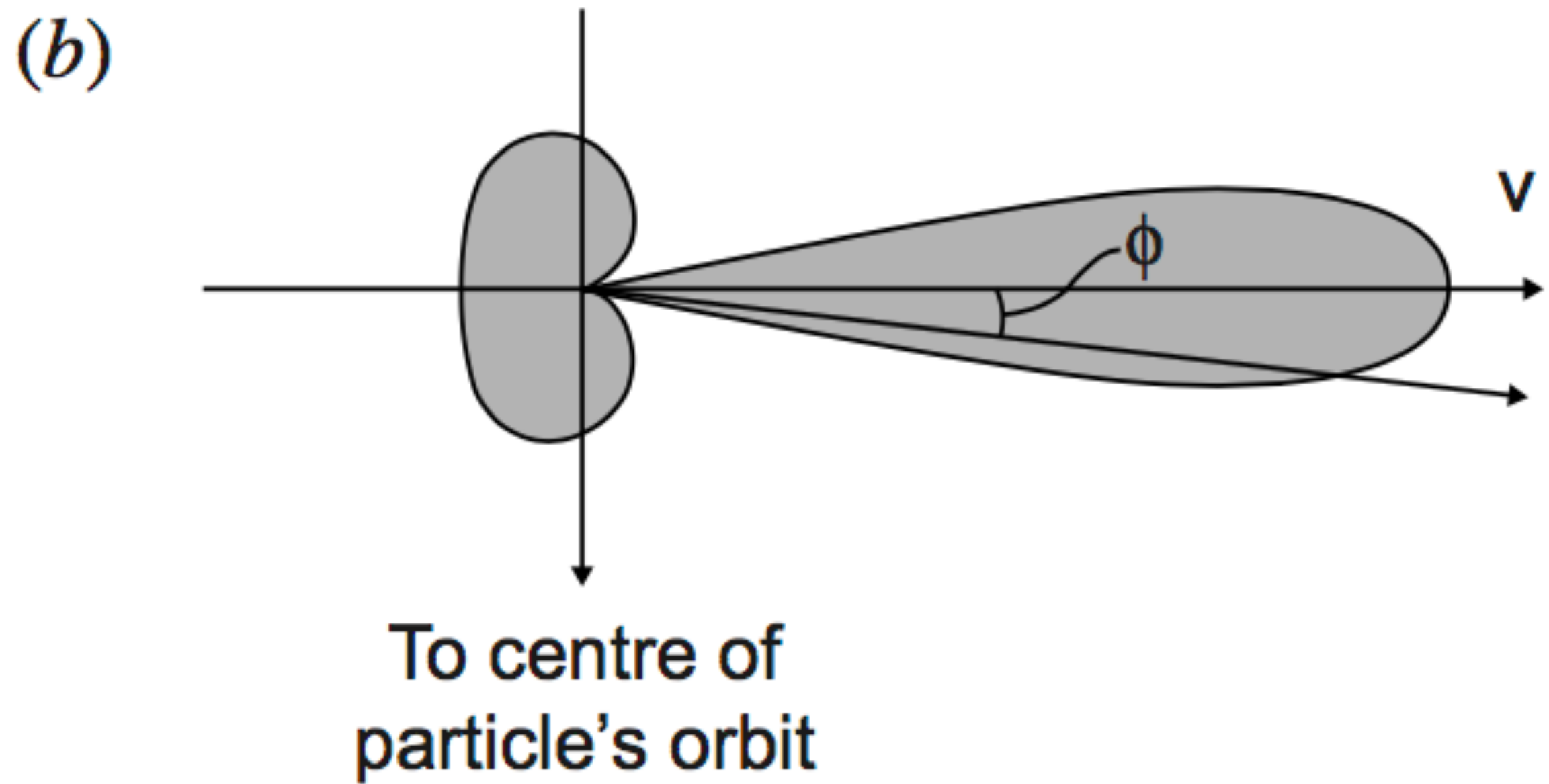
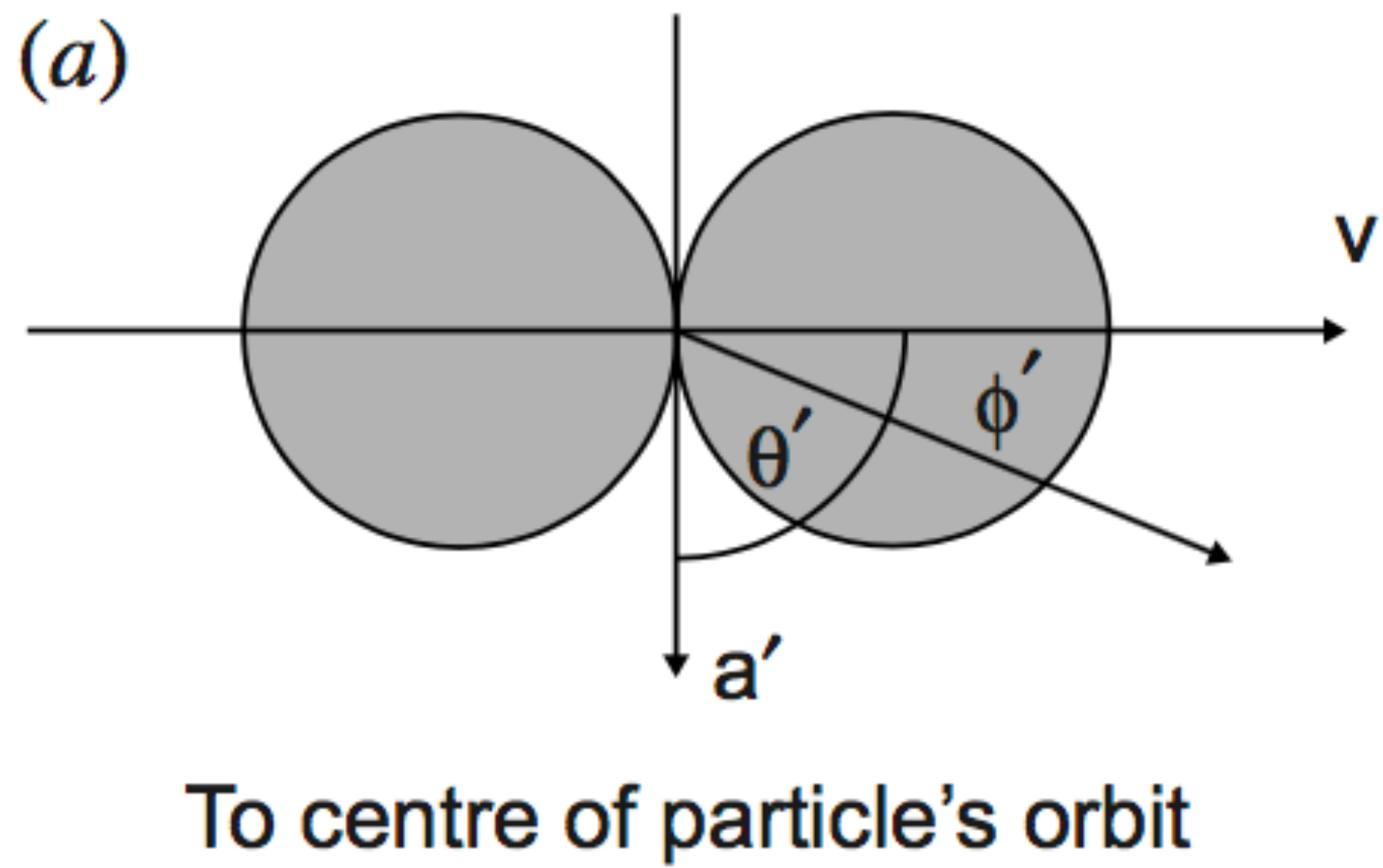


Fig. 8.5

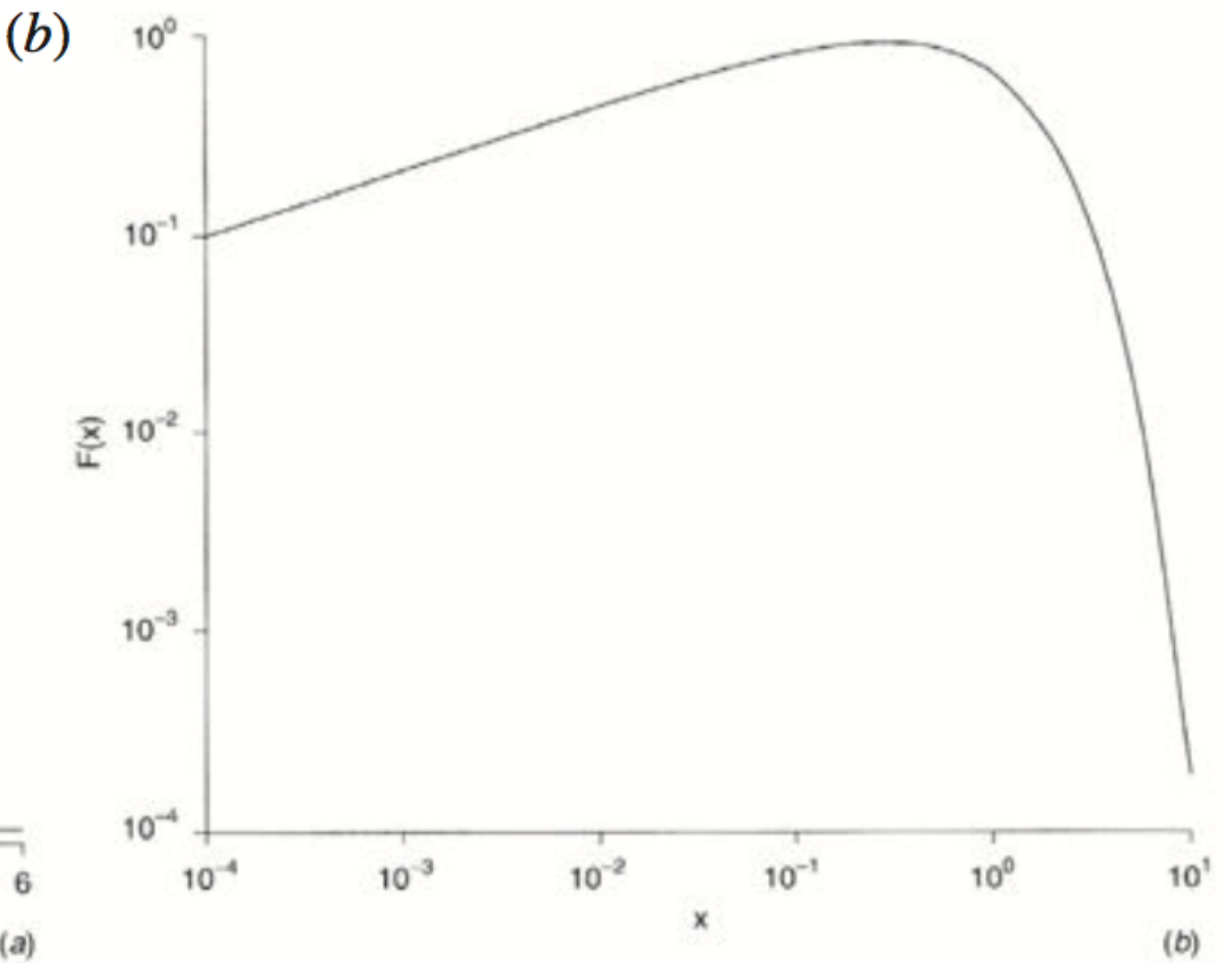
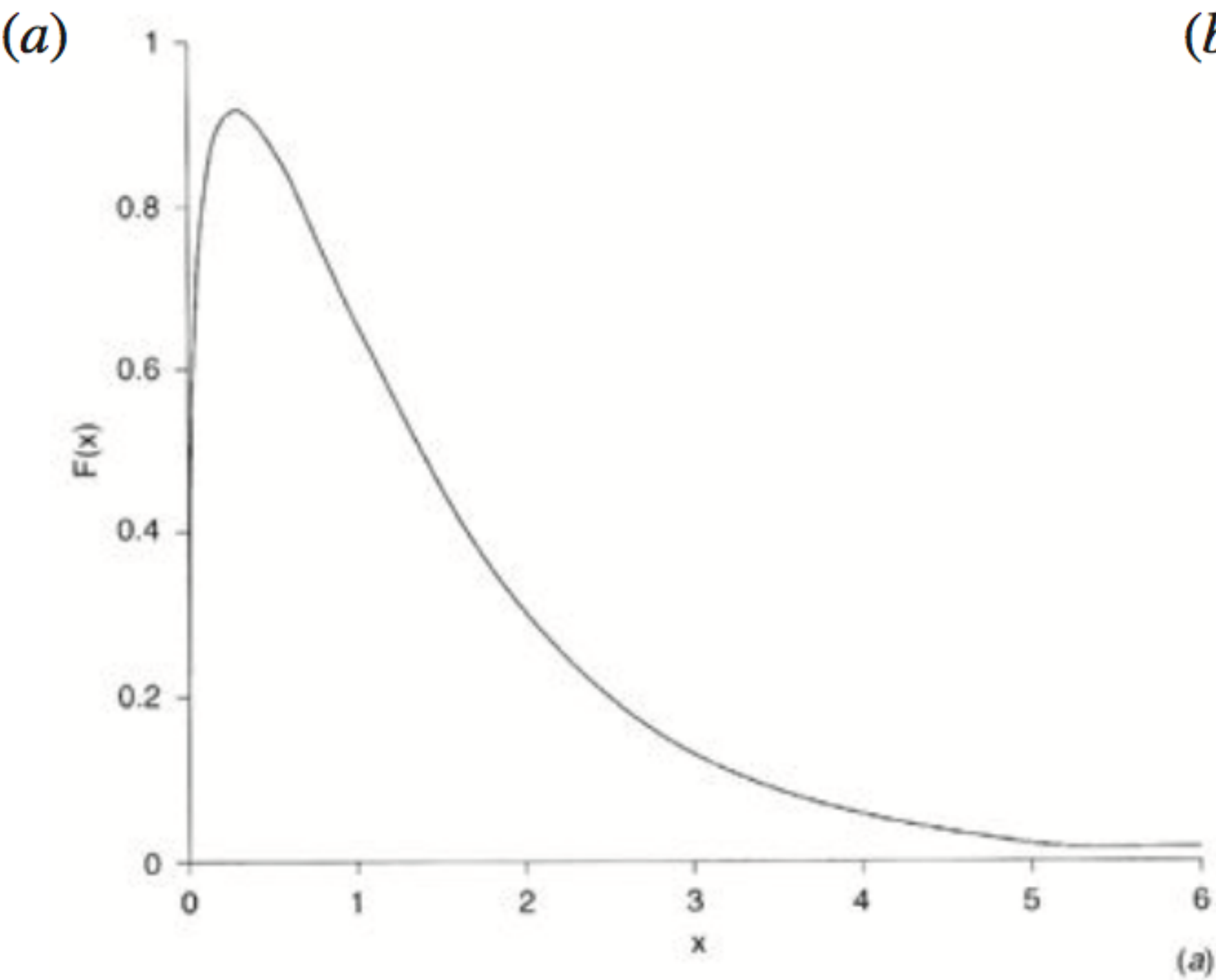


Fig. 8.8

# Synchrotron Self-Absorption

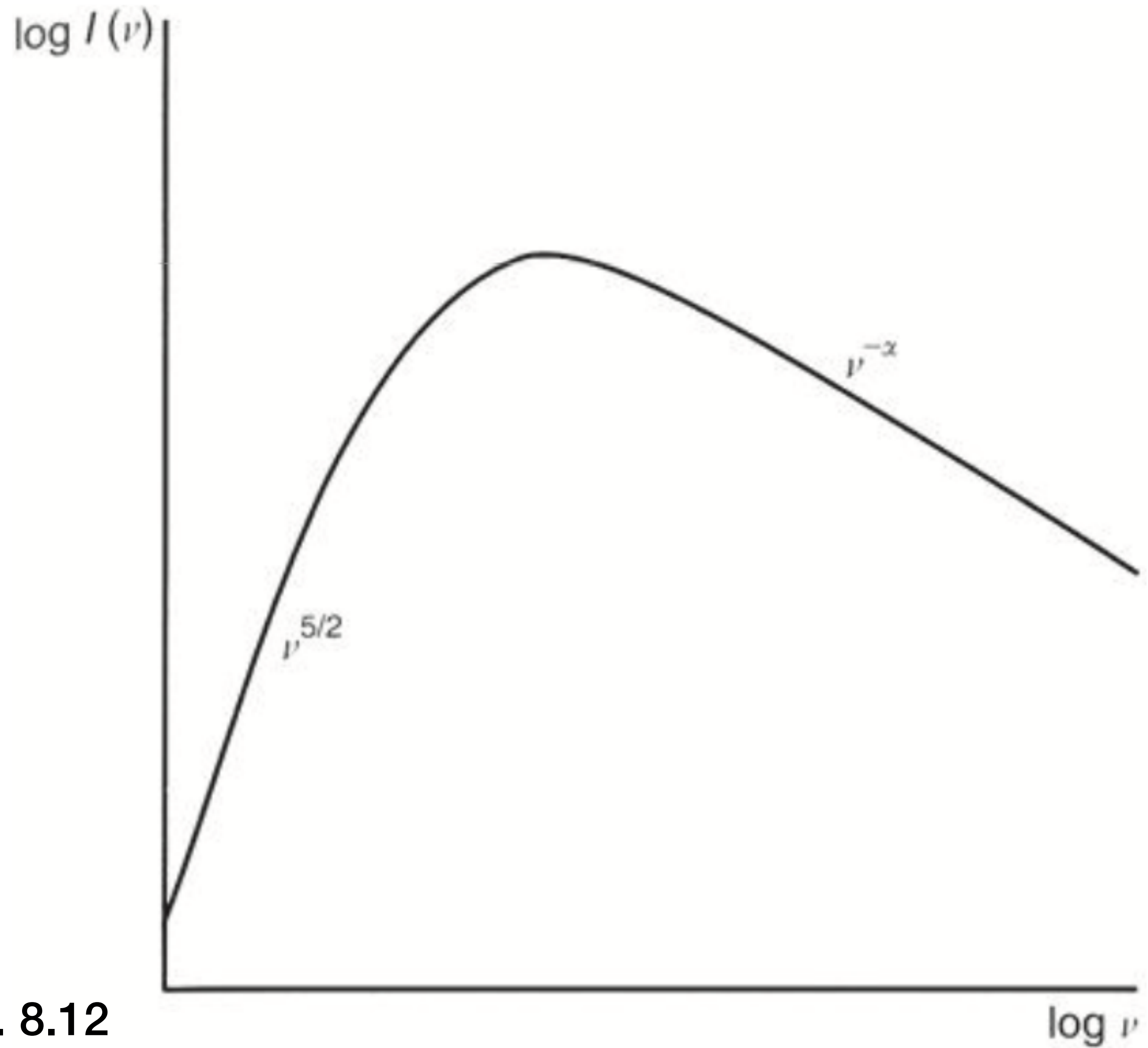


Fig. 8.12



# Using Results to estimate $B$ in ISM

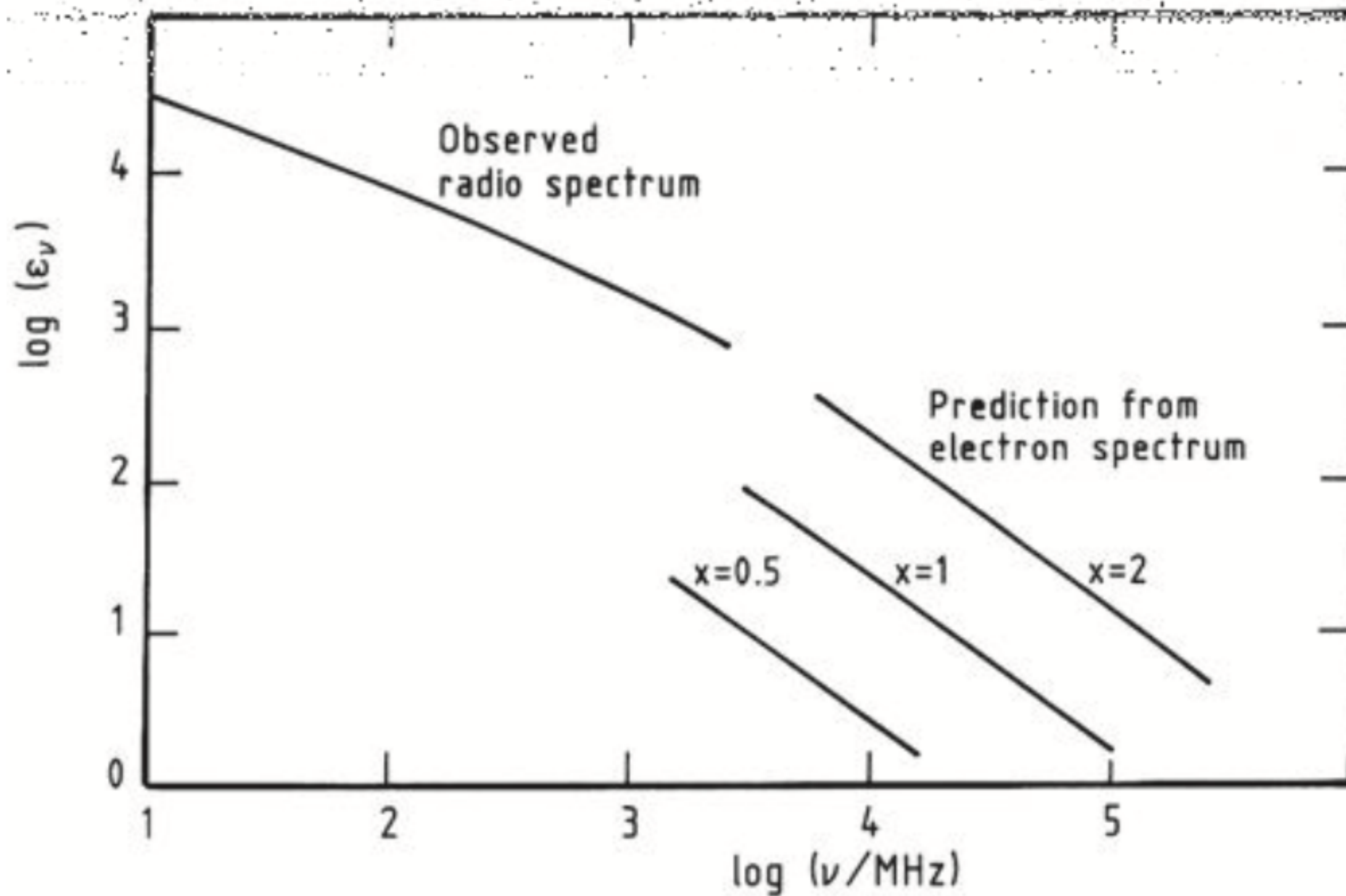


Fig. 8.14



# Photoelectric Absorption

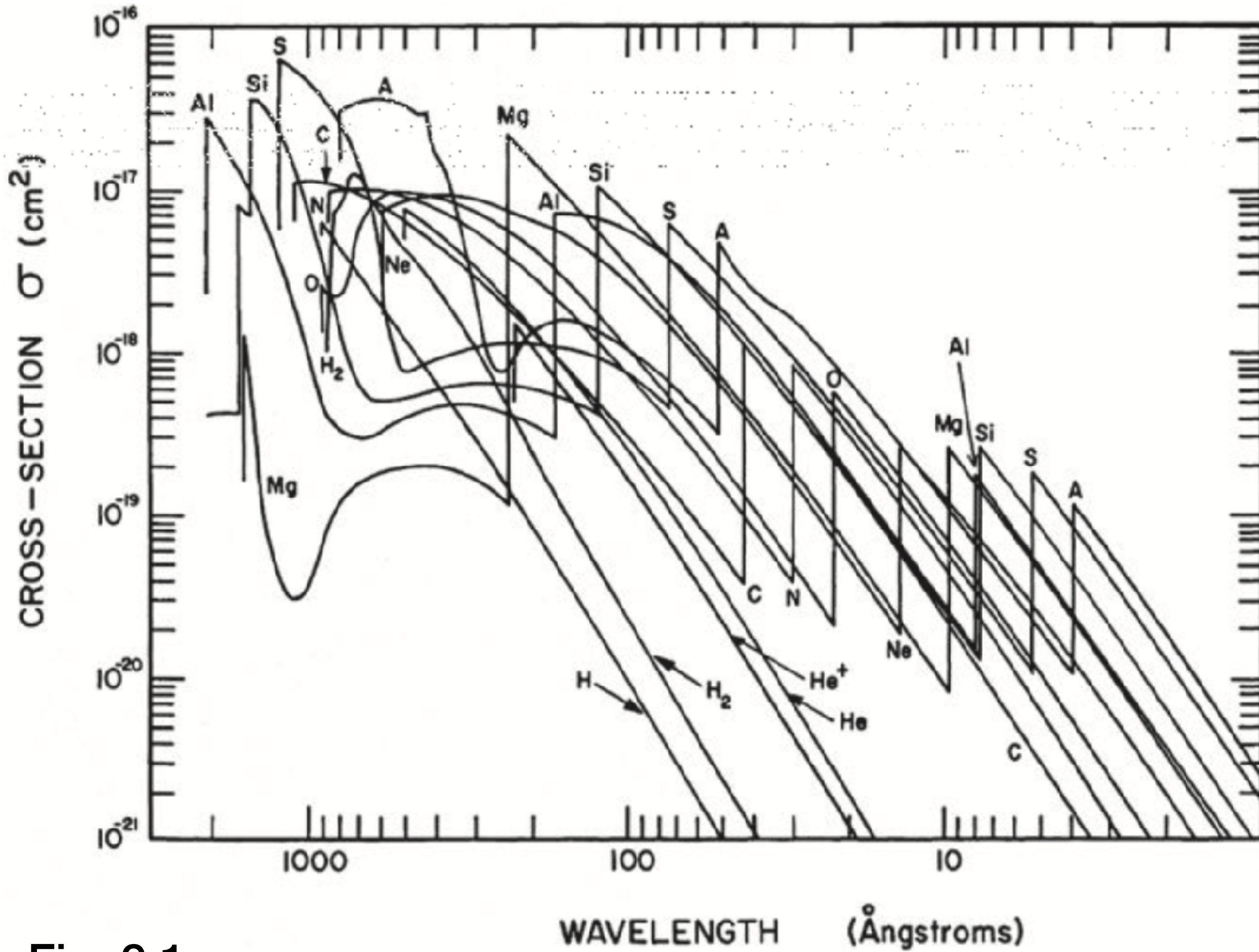


Fig. 9.1

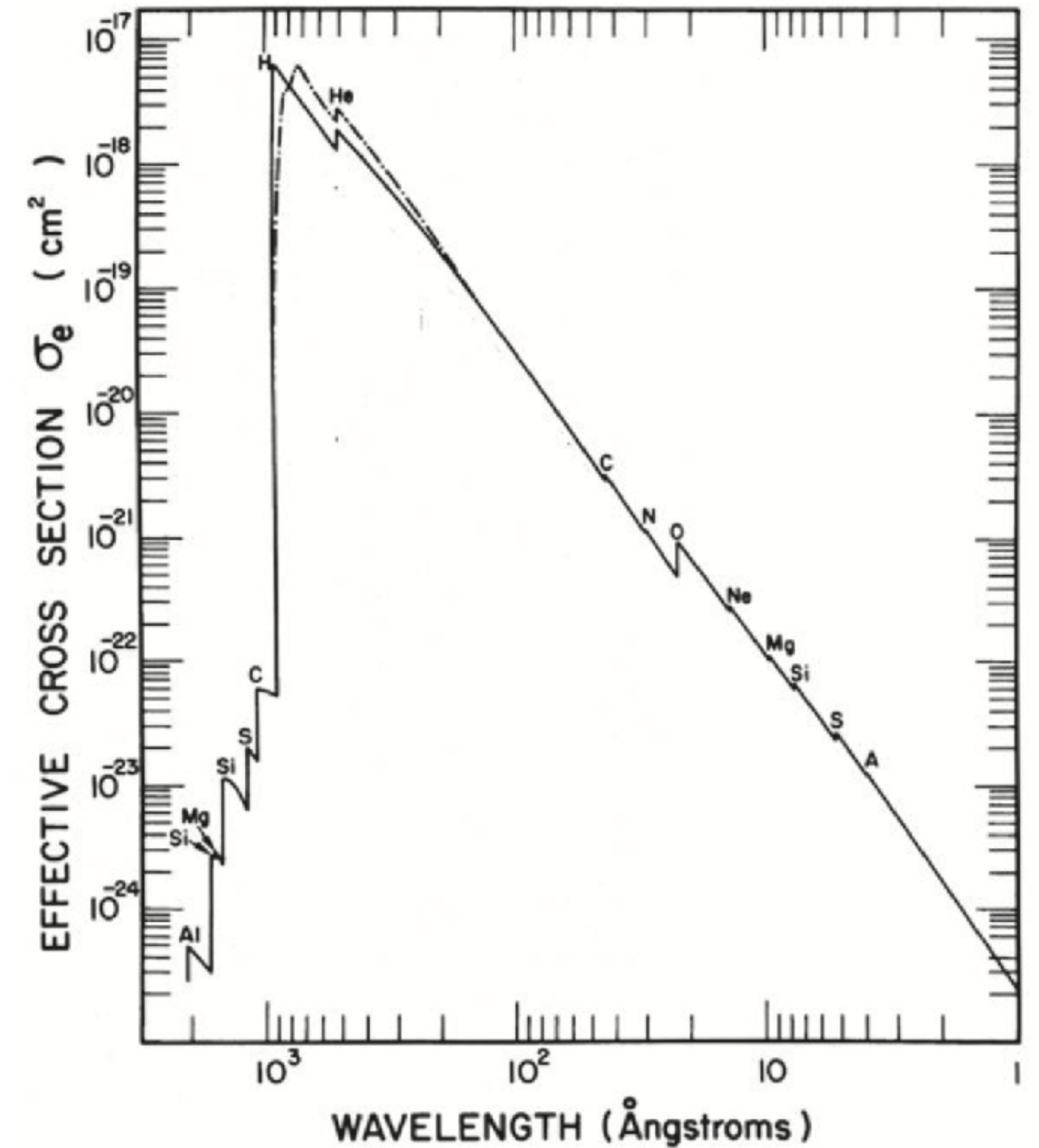


Fig. 9.2