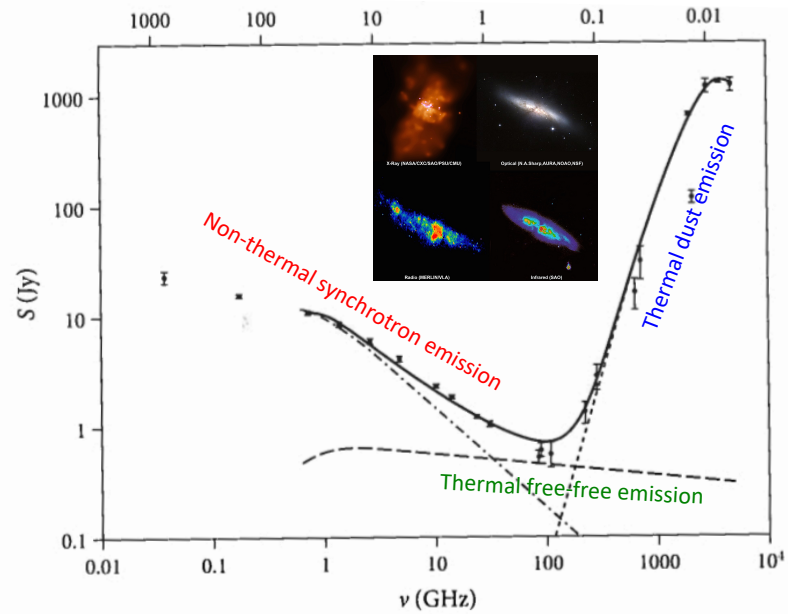
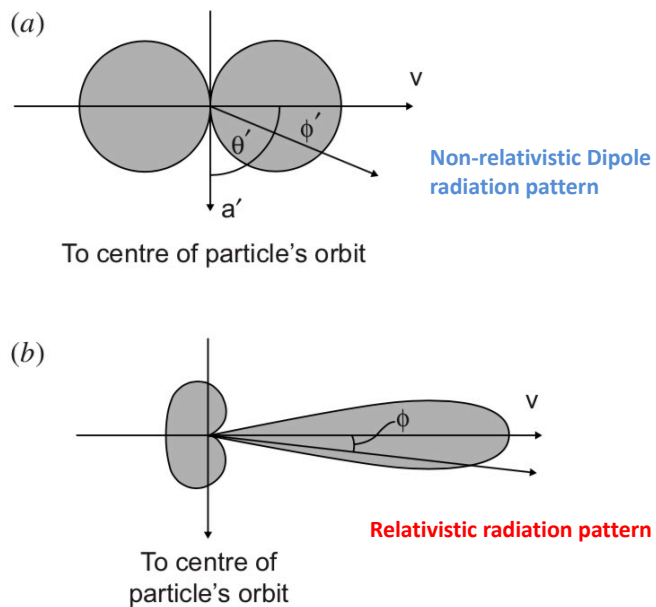


Radio Spectrum of M82 Galaxy



Relativistic Beaming of Radiation Pattern



Synchrotron Power Spectrum single e^-

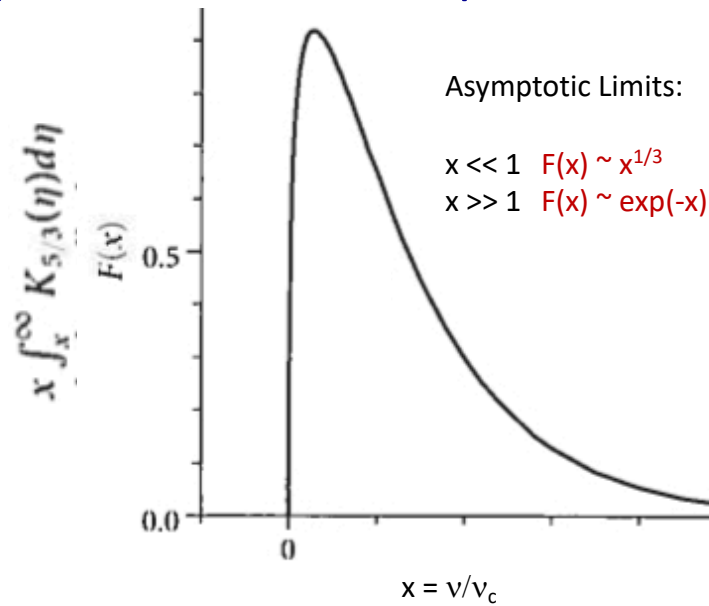


Table 8.2 Pacholczyk's constants^a Number density $e^- \sim E^{-\Gamma}$

Γ	$c_5(\Gamma)$	$c_6(\Gamma)$
0.5	2.66×10^{-22}	1.62×10^{-40}
1.0	4.88×10^{-23}	1.18×10^{-40}
1.5	2.26×10^{-23}	9.69×10^{-41}
2.0	1.37×10^{-23}	8.61×10^{-41}
2.5	9.68×10^{-24}	8.10×10^{-41}
3.0	7.52×10^{-24}	7.97×10^{-41}
3.5	6.29×10^{-24}	8.16×10^{-41}
4.0	5.56×10^{-24}	8.55×10^{-41}
4.5	5.16×10^{-24}	9.24×10^{-41}
5.0	4.98×10^{-24}	1.03×10^{-40}
5.5	4.97×10^{-24}	1.16×10^{-40}
6.0	5.11×10^{-24}	1.34×10^{-40}

^aRef. [116]. Note all quantities are in cgs units. Γ is the spectral index of the electron energy distribution given by Eq. (8.34).