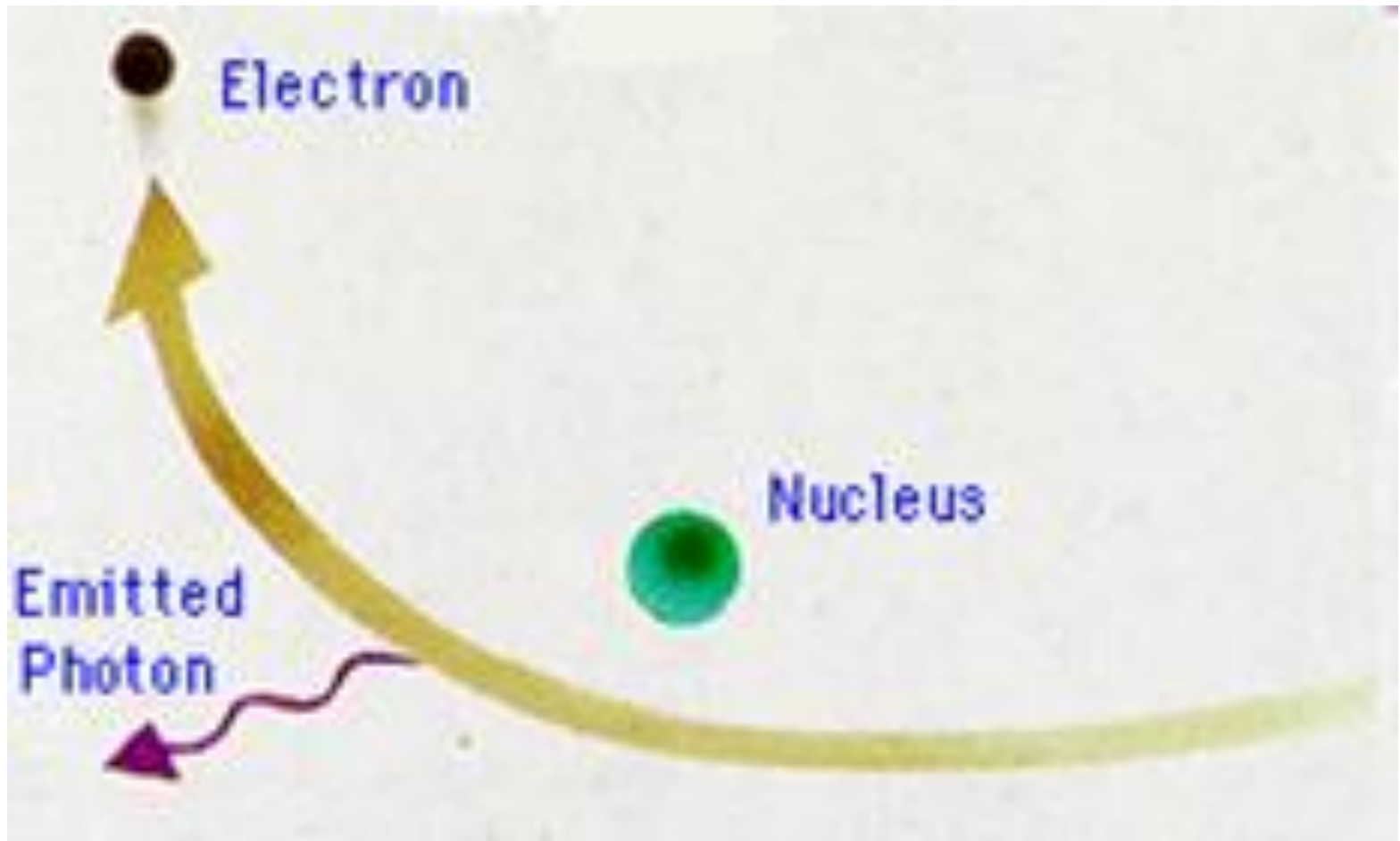
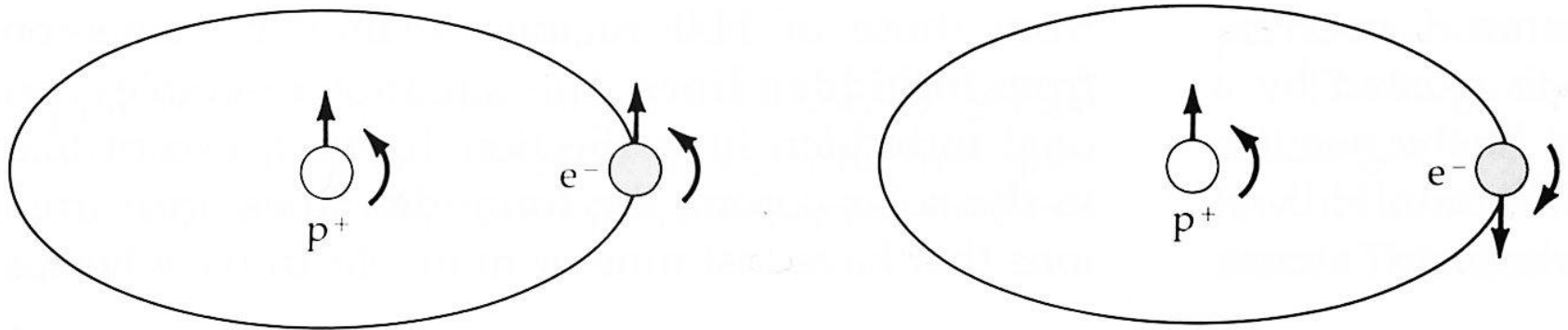


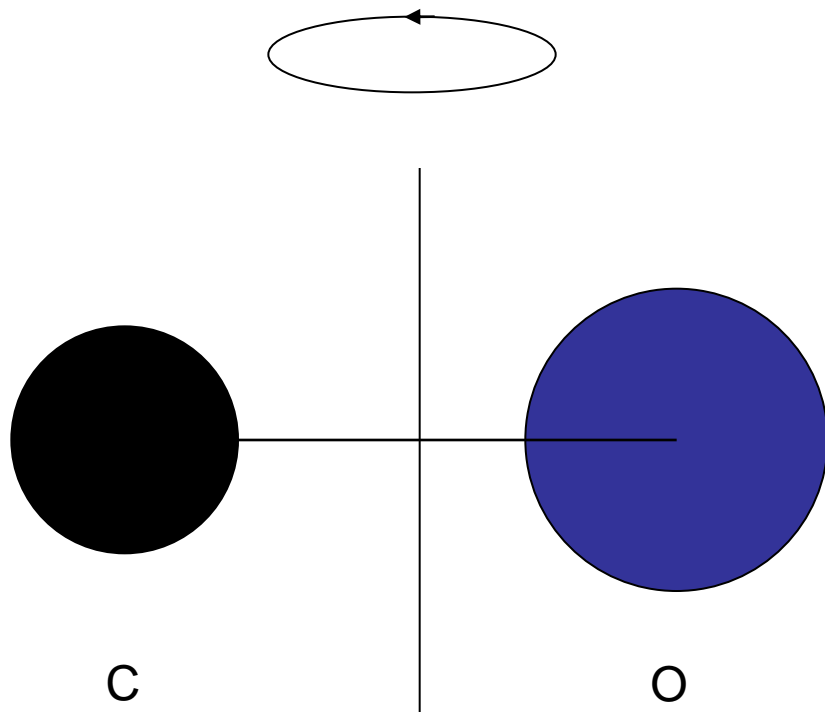
H II Region optical spectrum. S. Temporin_ & R. Weinberger, A&A 420, 225 (2004), Copyright ESO.



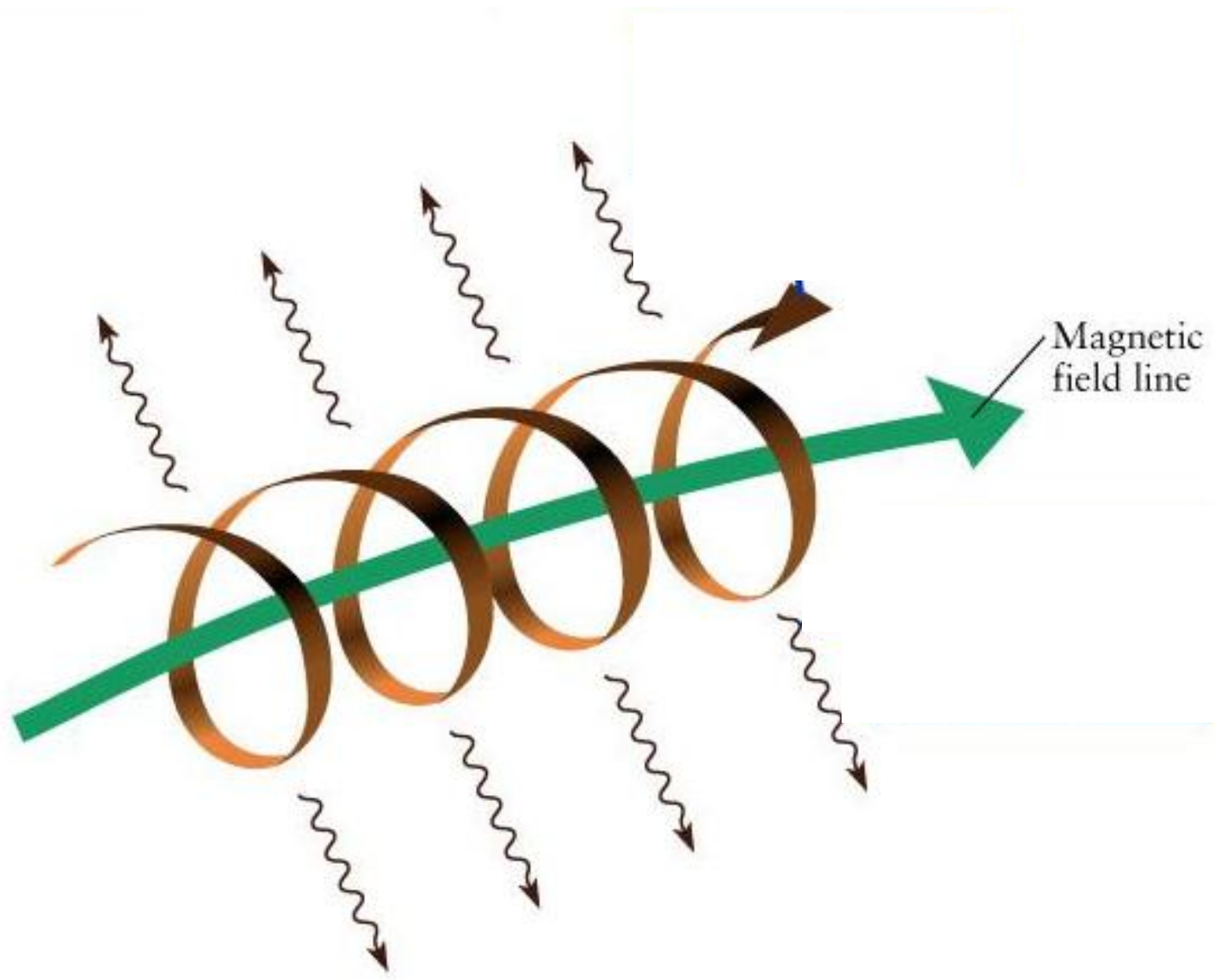
Bremsstrahlung mechanism. NASA [Goddard Space Flight Center](https://www.nasa.gov/goddard).



21 cm Hyperfine transition in atomic hydrogen. Zeilik Fig 15-12

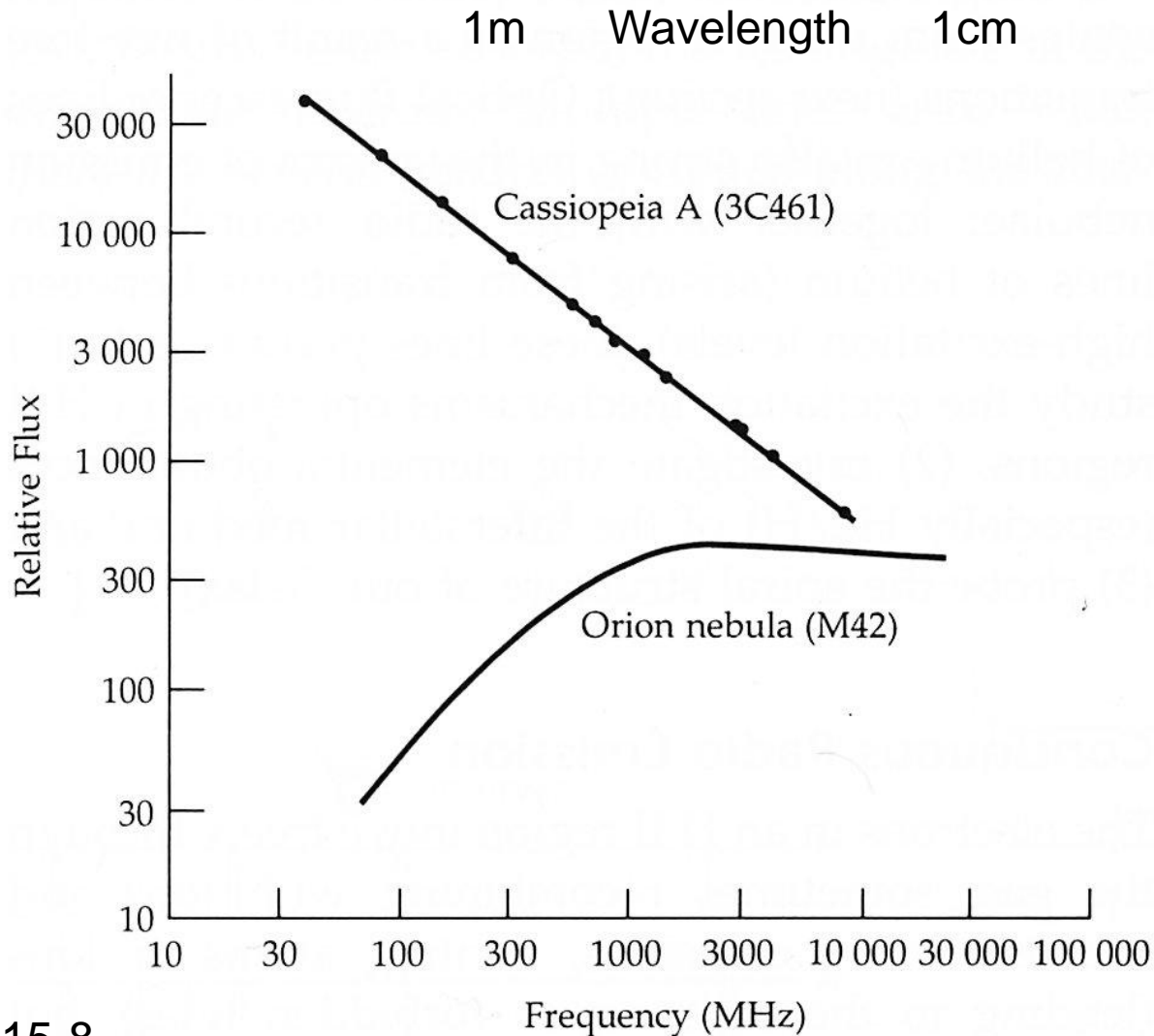


Rotational transition of the CO molecule.



Synchrotron mechanism

- Note the different slopes of the radio spectra for thermal sources like the H II region M42 and non-thermal sources like the SNR Cas A



Zeilik Fig 15-8