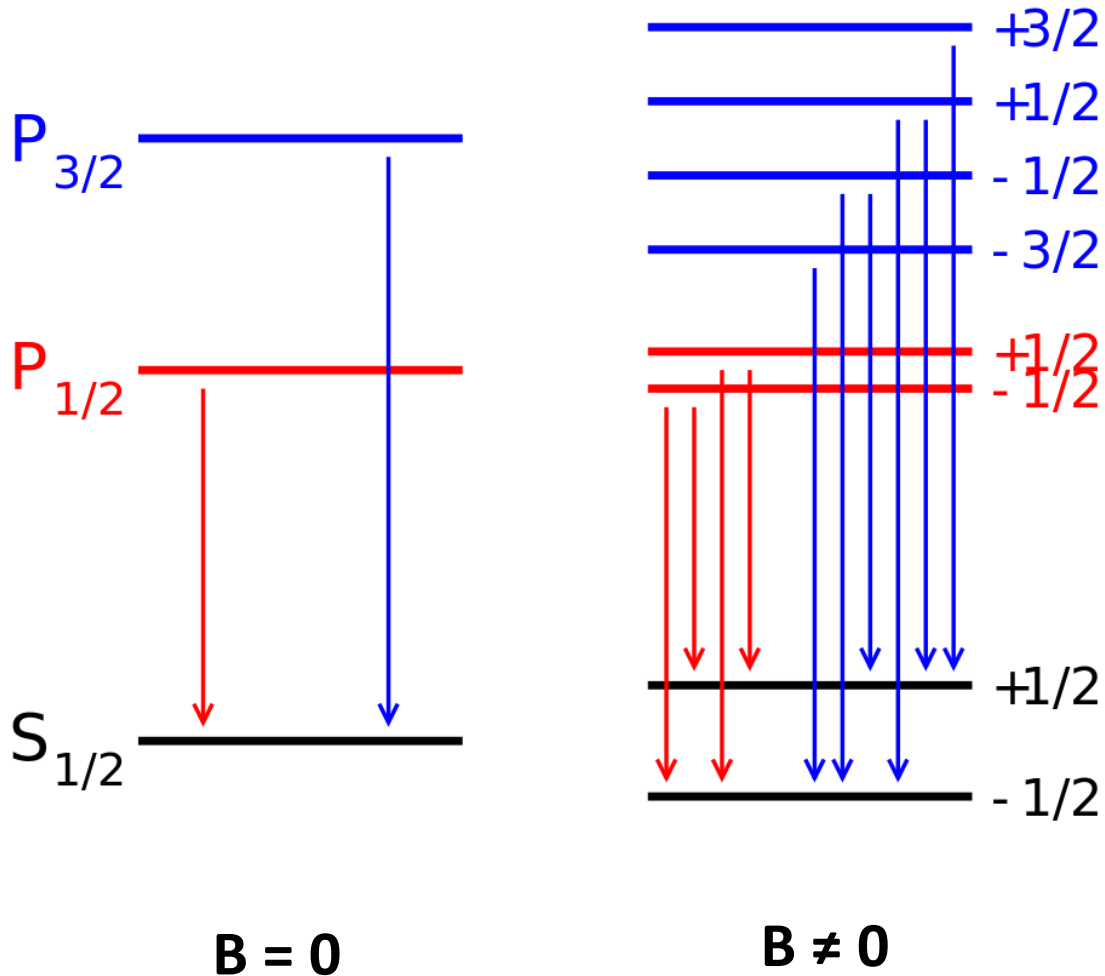


# Zeeman Effect in Hydrogen



Hydrogen atom

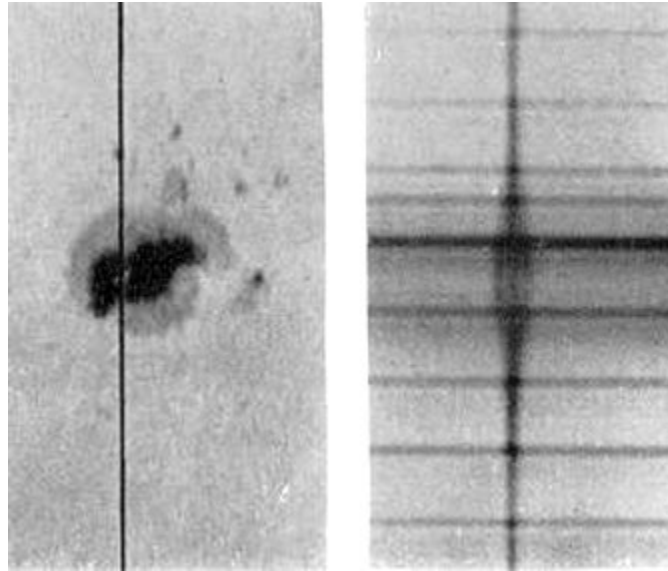


Magnetic field off.



Magnetic field on.

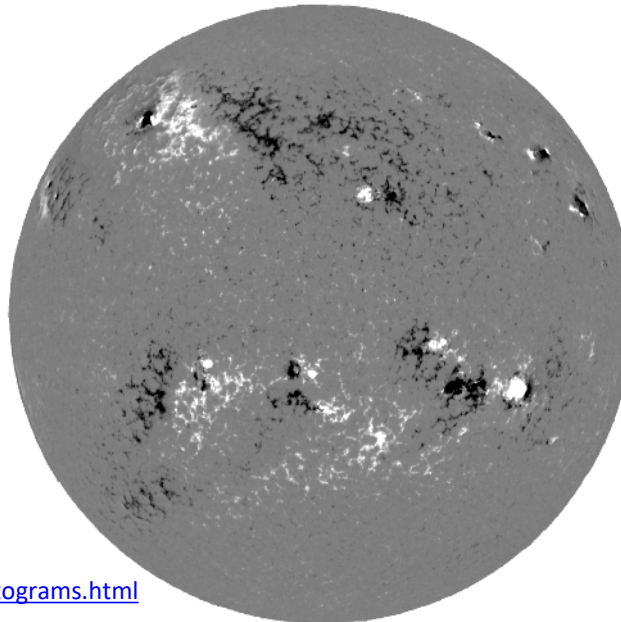
Normal Zeeman effect



Hale - G.E. Hale, F. Ellerman, S.B. Nicholson, and A.H. Joy in "The Astrophysical Journal" Vol. 49, pps. 153-178.

Magnetic field of sunspot (left) splits absorption line according to Zeeman effect (right).

Solar Magnetogram  
created with the Zeeman  
effect



The direction of magnetic  
field is revealed by the  
circular polarization of the light