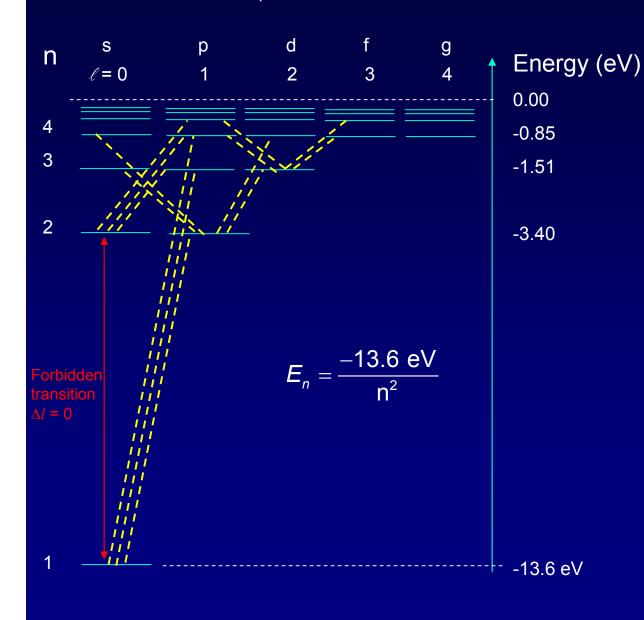
Allowed Transitions for H

(You will observe some of these transitions in Lab 4.)



Selection Rule for "electric-dipole" (photon has *l* = 1) transitions:

$$\Delta l = \pm 1$$
 $\Delta m = 0, \pm 1$

NOTE:

It is possible (but unlikely) for the photon to have $\ell \neq 1$ or for more than one photon to be involved. This permits other Δl and Δm .