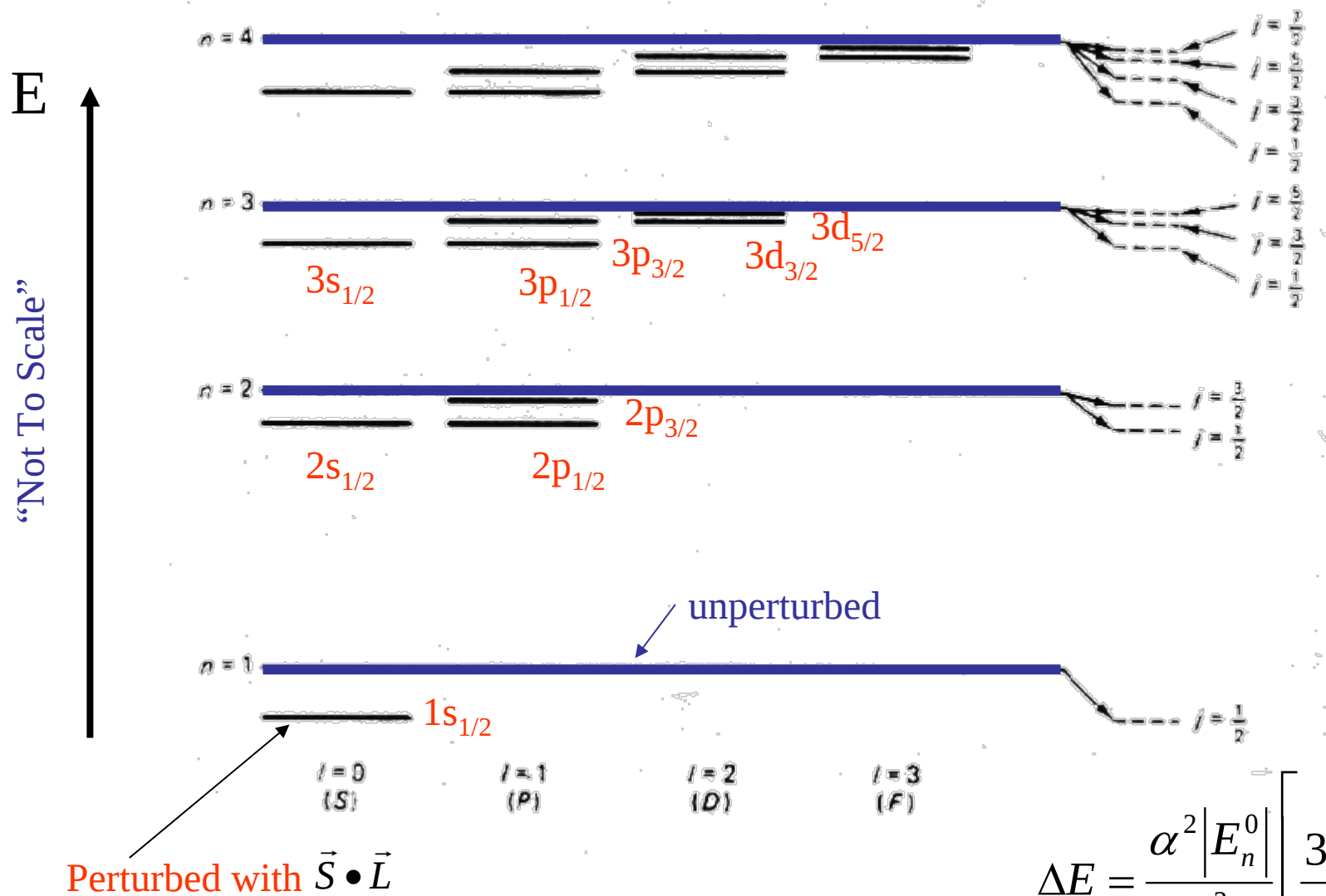


# Spin-Orbit + Relativistic Splitting in the Hydrogen Atom Energy Eigenvalues



$$\Delta E = \frac{\alpha^2 |E_n^0|}{n^2} \left[ \frac{3}{4} - \frac{n}{j + \frac{1}{2}} \right]$$

Fine Structure Formula