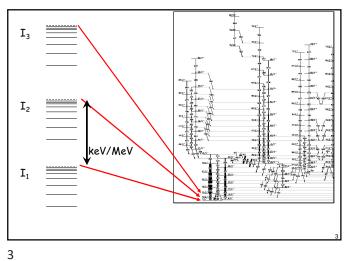
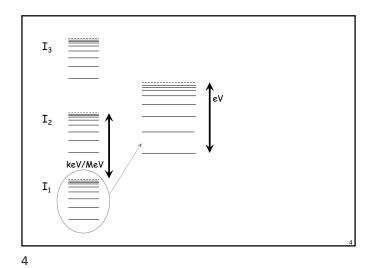


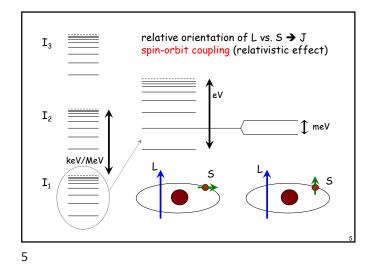
## When you studied H or He in your first courses on quantum physics, you made the following approximations : non-relativistic effective electron-electron interactions (He, not H) infinitely heavy nucleus point nucleus this course: examine and exploit the new features that appear once the approximation of a point charge nucleus has been abandonned.

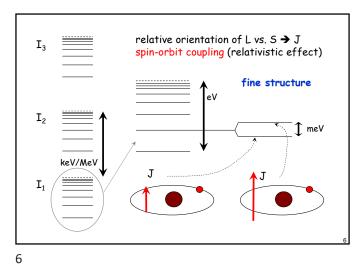
back to basics: the H- or He-atoms

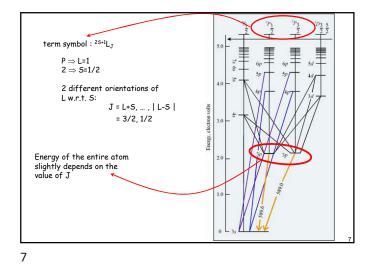
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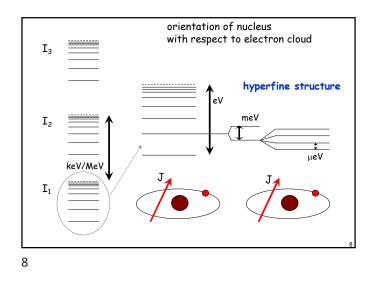


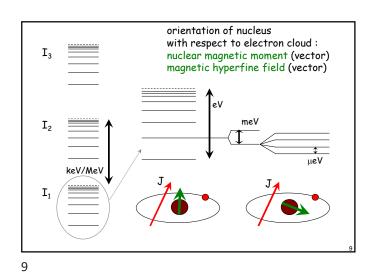


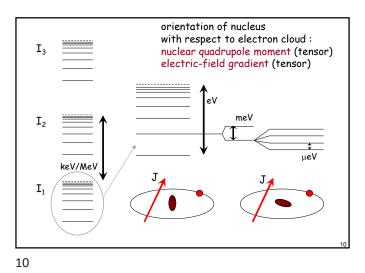


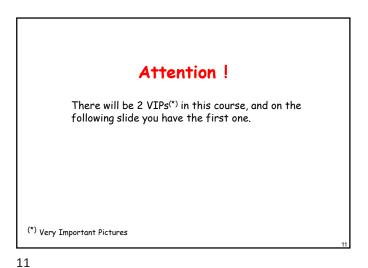


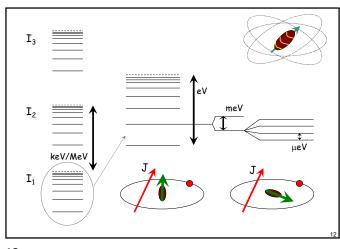














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