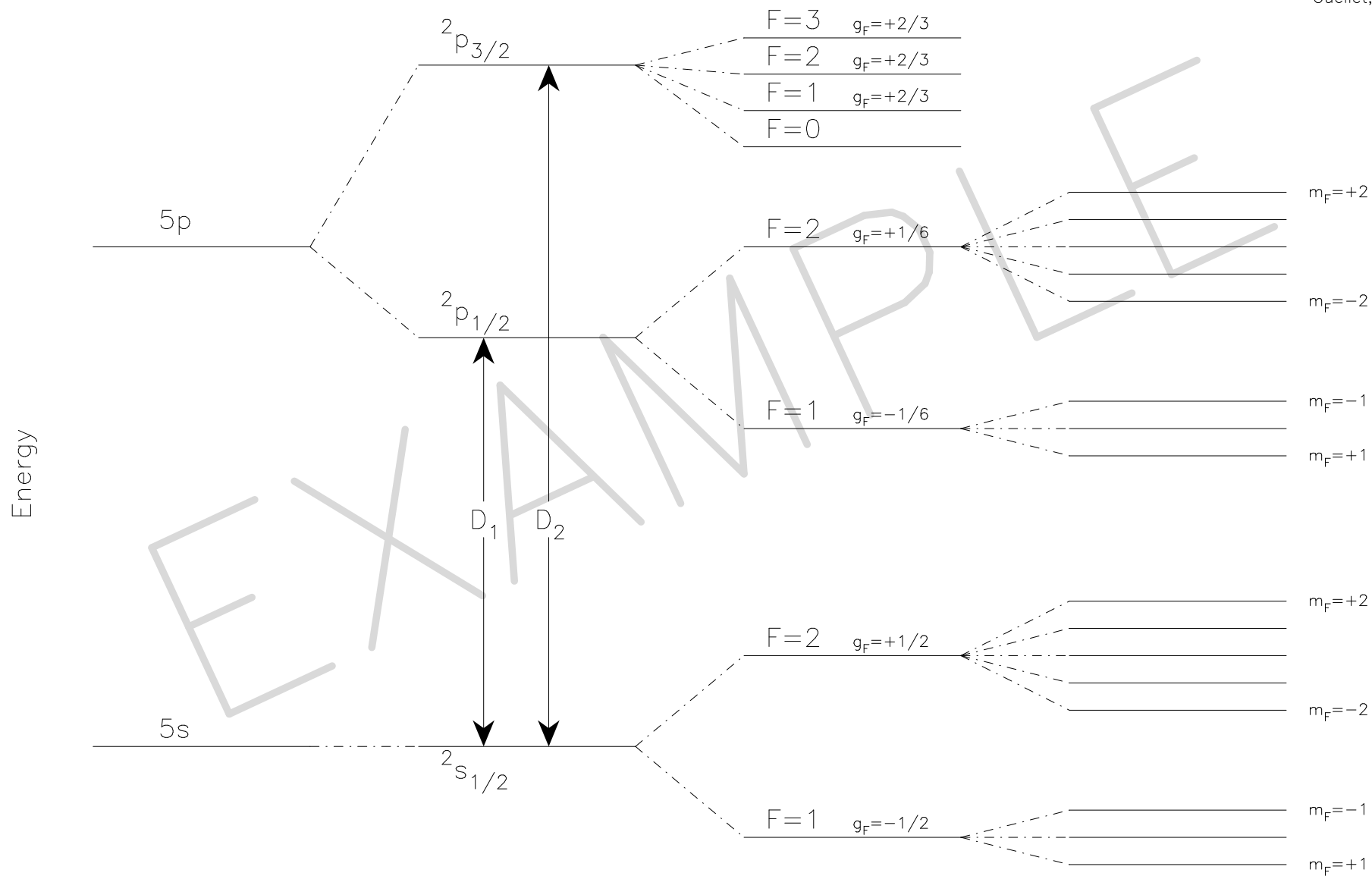


Energy Level Diagrams for Rb
Jonathan Ouellet
11/13/2010

Attached are the energy level diagrams for rubidium. These should not be cited as an academic resource, but used only as a reference.

^{87}Rb

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Coulomb Structure
 $\propto \alpha^2$

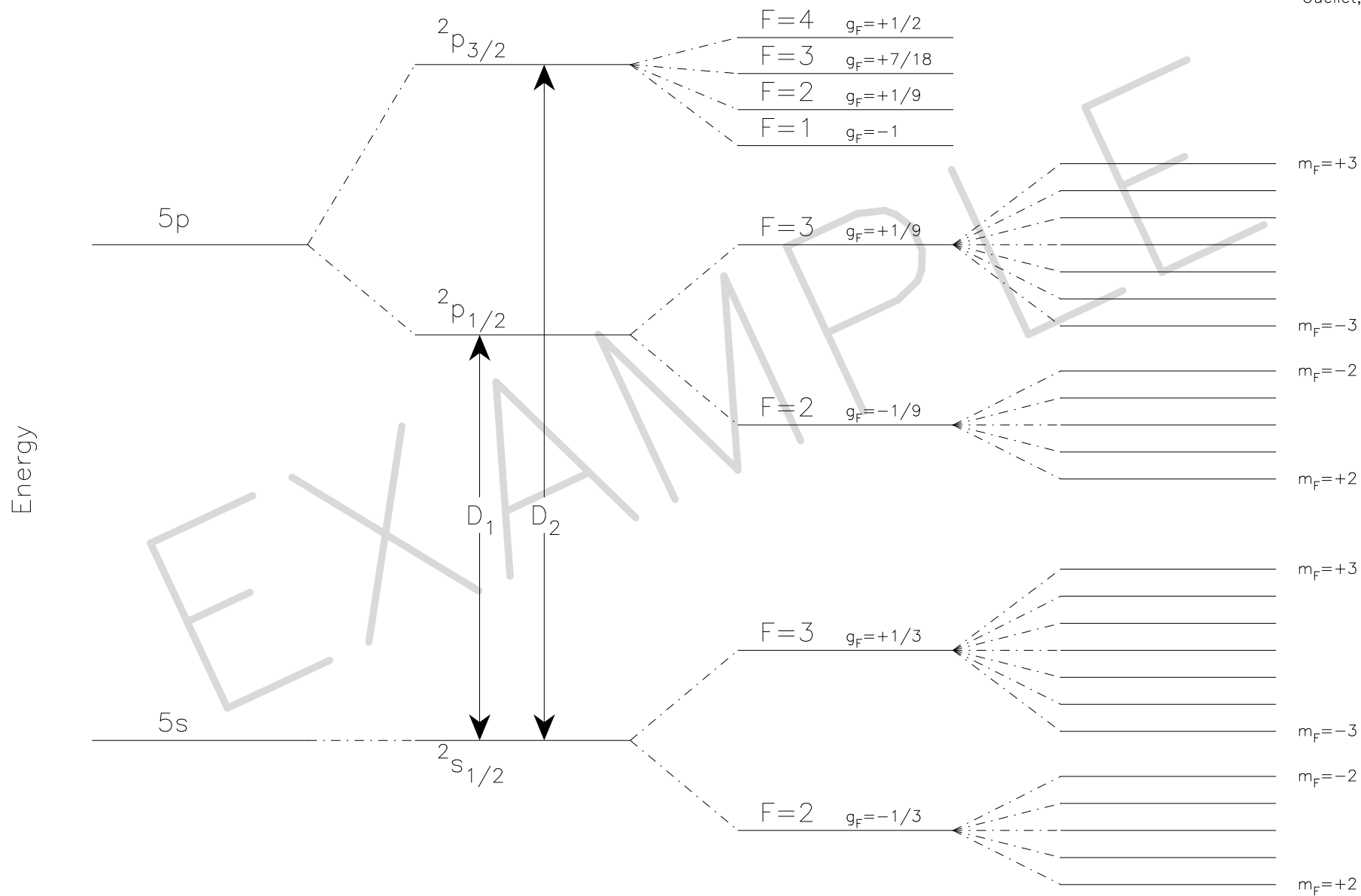
Fine Structure
 $\propto \alpha^4$

Hyperfine Structure
 $\propto (m_e/m_p)\alpha^4$

Zeeman Structure

^{85}Rb

Ouellet, J.



Coulomb Structure
 $\propto \alpha^2$

Fine Structure
 $\propto \alpha^4$

Hyperfine Structure
 $\propto (m_e/m_p)\alpha^4$

Zeeman Structure

Zeeman Splitting of the $^2P_{3/2}$ States

Ouellet, J.

