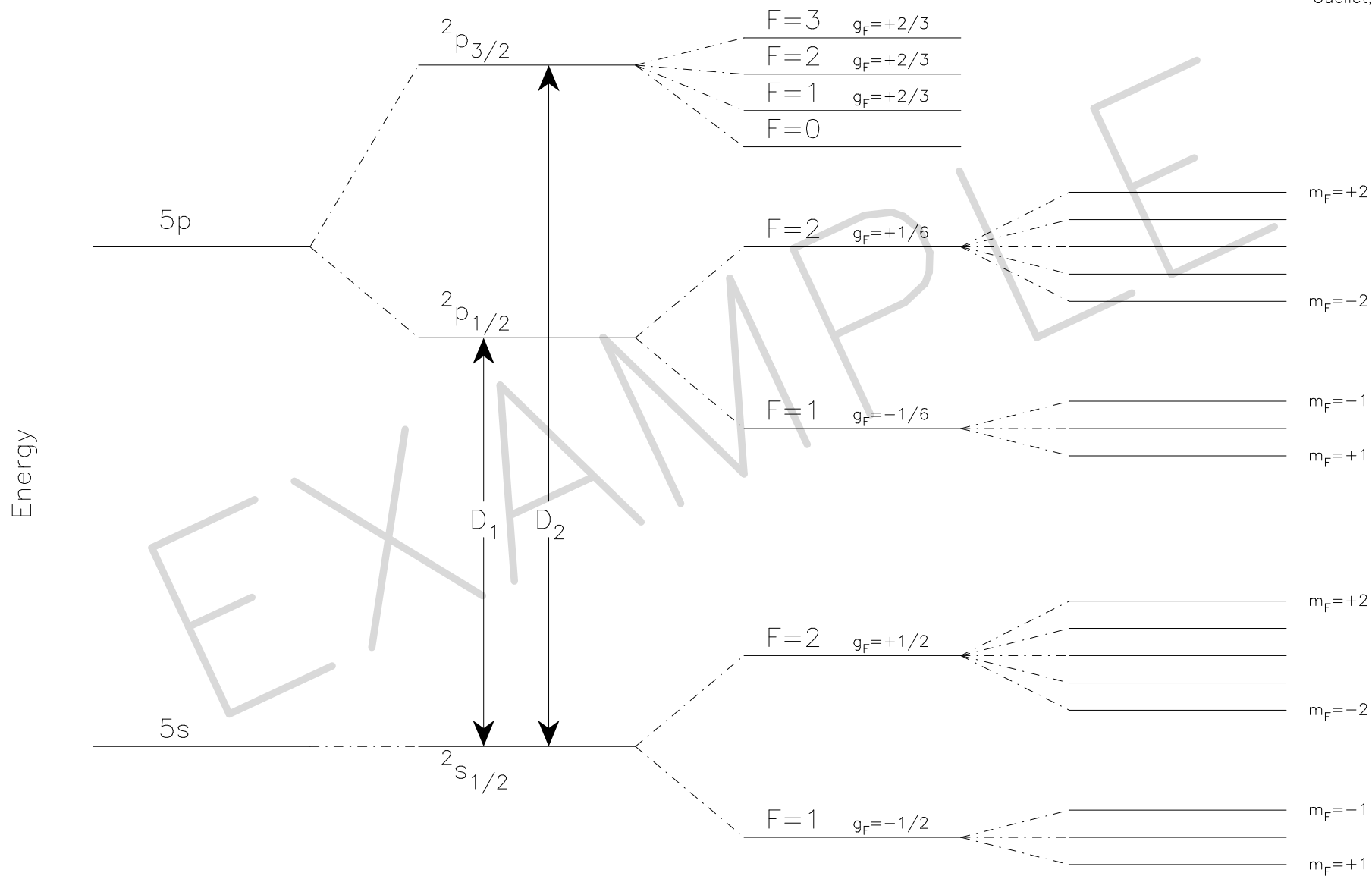


Energy Level Diagrams for Rb  
Jonathan Ouellet  
11/13/2010

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

$^{87}\text{Rb}$

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Coulomb Structure  
 $\propto \alpha^2$

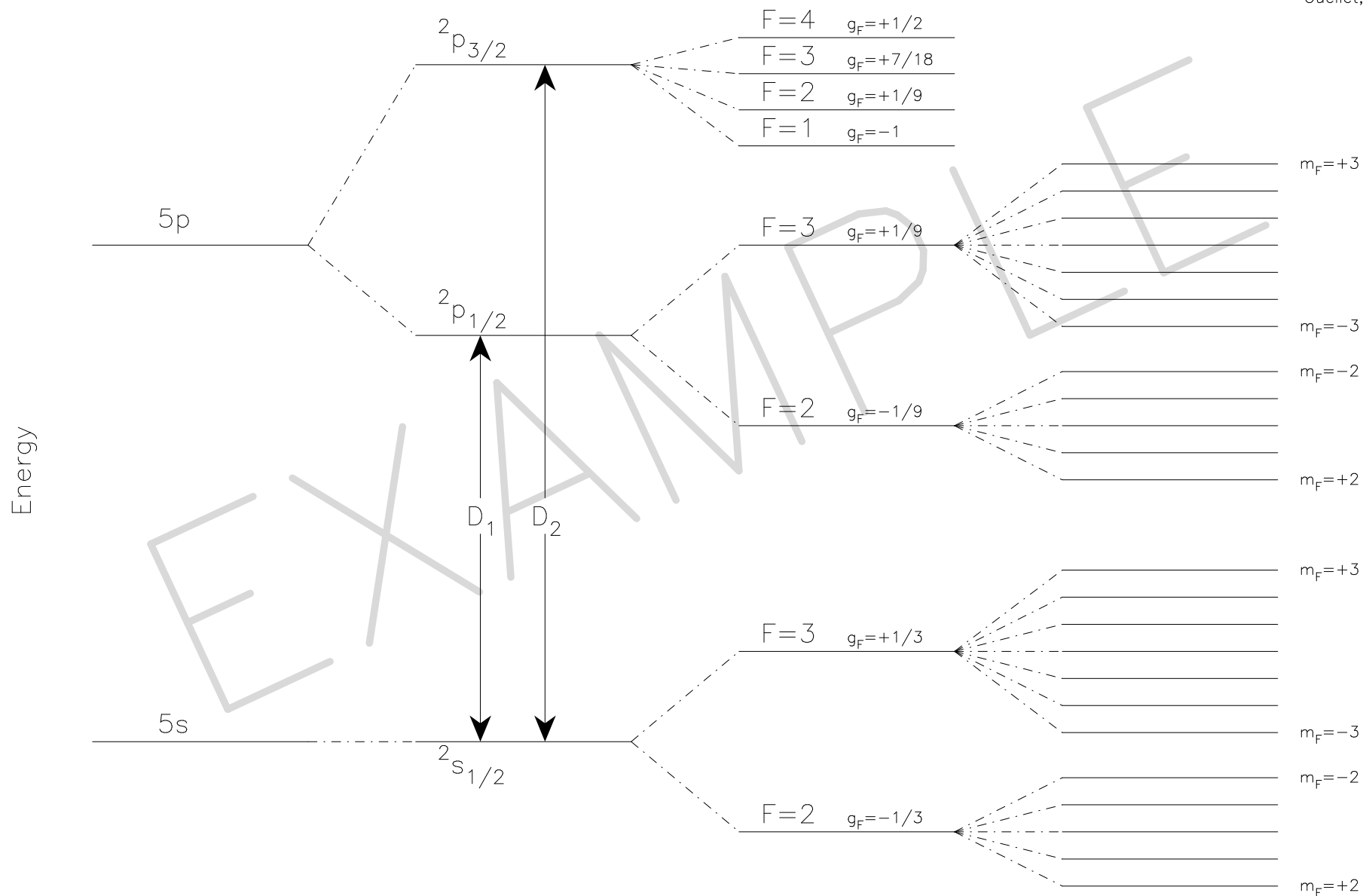
Fine Structure  
 $\propto \alpha^4$

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

Zeeman Structure

$^{85}\text{Rb}$

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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

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

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