

Quiet Sun magnetism seen by an Mn I line

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HFS: Reminder

Mn I, Fine Structure: $a^6D_{\frac{1}{2}}$

Mn I, Nucleus : I=2.5

F=I+J

Zeeman effect on F,M_F





HFS: Reminder





HFS: Reminder









•Computation of atomic level energies:

 $H ([J,I,F],B) = H_{hfs}(J,I,F) + H_{Zeeman}(B)$

•Nuclear gyroscopic factor neglected

•No atomic polarization included

•Electric dipole transitions

•Milne-Eddington atmospheres assumed

•DIAGONAL code modified for hfs computation

































Inversion or bust?

Doyle, Jevremovic, Short, Hauschildt, Livingston, & Vince A&A Letters. 369, 13 (2001)

















