4s4f 8F levels S.E. Johansson (2007, personal communication to Castelli) SEJ.

Described but not listed in Physica Scripta T134, 2009, 014013, 8pp.

----- Original Message -----

Subject: Re: Fwd: Re: Fe 2 energy levels Date: Wed, 05 Dec 2012 10:25:07 +0100

From: Fiorella Castelli <castelli@oats.inaf.it>
To: Robert Kurucz <rkurucz@cfa.harvard.edu>

If I well remember the Table comes from a talk he had in Aveiro-Portugal in 2006, but the table is not included in the Proceedings. He also showed the energy levels in Lund, but also in this case the tables (two) are not in the Proceedings. I have these determinations because he sent me a copy of the slides he showed in Lund. The levels are:

8F 13/2 132158.38 11/2 132154.82 9/2 132151.83 7/2 132149.44 5/2 132147.57 3/2 132146.32 1/2 132145.52

The 8D even levels are:

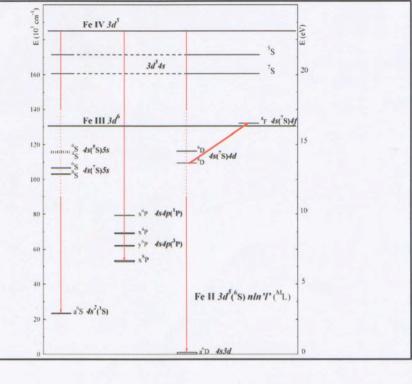
11/2 109486.54 9/2 109474.09 7/2 109463.66 5/2 109455.62 3/2 109449.89

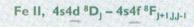
There is also a table with 15 lines of the 8D-8F multiplet.

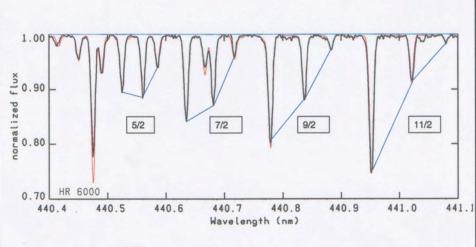
He was going to write a letter for some Journal on this multiplet. I believe that for this reason he did not write anything on it.

ciao, Fiorella

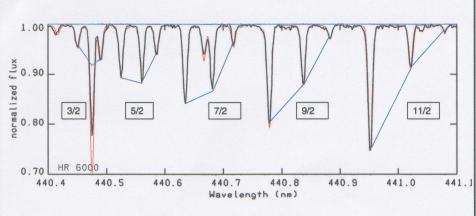
1 of 1 12/5/12 12:32 PM







Fe II, 4s4d ⁸D_j - 4s4f ⁸F_{j+1,j,j-1}



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		132158.	132154.	132151.	132149.	132147.	132146.	132145.
8D	cm ⁻¹	38	82	83	44	57	32	52
11/2	109486.	4409.52	4410.21	4410.79				
	54	0.91	0.17	-0.83	2			
9/2	109474.		4407.79	4408.37	4408.79			
	09		0.74	0.36	-0.41			
7/2	109463.			4406.35	4406.82	4407.17		
	66			0.54	0.39	-0.17		
5/2	109455.				4405.24	4405.61	4405.83	
	62				0.27	0.33	-0.03	
3/2	109449.					4404.50	4404.74	4404.90
	89					-0.15	0.15	0.07
							bl. Fe I	

7/2

13/2

11/2

9/2

