

### Sample recent calculations

	config		levels		----- E1 lines -----		
	even	odd	even	odd	good wl	total	old total
Fe I	61	50	18655	18850	93508	6029023	789176
Fe II	46	39	19771	19652	124654	7834553	1264969
Fe III	49	41	19720	19820	37199	9548787	1604934
Fe IV	61	54	13767	14211	8408	14617228	1776984
Fe V	61	61	6560	7526	11417	7785320	1008385
Fe VI	73	73	2094	2496	3534	9072714	475750
Fe VII	85	86	7132	7032	2326	2816992	90250
Fe VIII	52	52	1365	1244	233	220166	14561
Co I	61	61	10920	13085	15441	3771900	546130
Co II	61	50	18655	19364	23355	10050728	1361114
Co III	44	39	18343	19652	9356	11515139	2198940
Ni I	61	61	4303	5758	9663	732160	149925
Ni II	61	61	10270	11429	55590	3645991	404556
Ni III	61	50	18655	19364	21251	11120833	1309729
Ni IV	44	39	18343	19517	5659	15152636	1918070
Ni V	46	41	10637	19238	10637	15622452	1971819
Ni VI	61	61	13706	15792	12219	17971672	2211919
Ni VII	73	73	24756	19567	3502	28328012	967466
Ni VIII	73	73	12714	8903	758	12308126	602486
Ni IX	85	86	7132	7032	253	2671345	79627
Ni X	52	52	1365	1208	235	285029	0

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	even	odd	even	odd	good wl	total	old total
Sc I	61	61	2014	2318	15546	737992	191253
Sc II	61	61	509	644	3436	116491	49811
Sc III	39	38	134	147	1313	5271	1578
Sc IV							16985
Sc V	49	54	1317	1021	2180	645368	130563
Ti I	61	61	6628	7350	33815	4758992	867399
Ti II	61	61	2096	2318	8188	835027	264867
Ti III	73	68	3636	3845	4090	499739	23742
Ti IV	39	38	134	147	1844	7764	5079
V I	61	61	13767	15952	23342	7043556	1156790
V II	61	61	6740	7422	18389	3932853	925330
V III	61	61	2094	2318	9892	966528	284003
Cr I	47	40	18842	18660	35315	2582957	434773
Cr II	61	61	13767	15890	58996	6970052	1304043
Cr III	61	61	6580	7526	23150	5535931	990951
Mn I	44	39	18343	19652	16798	1481464	327741
Mn II	50	41	19686	19870	31437	4523390	878996
Mn III	61	61	13706	15890	17294	10525088	1589314

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	config		levels		-----	E1 lines	-----
	even	odd	even	odd	good wl	total	old good
P I	32	34	1278	1109	12272	202300	1218
P II	61	61	1616	1638	2954	217038	1095
P III	61	61	668	751	2223	60141	163
S I	61	61	2161	2270	24722	225605	834
S II	34	32	1278	1109	7275	275137	742
S III							191
Cl I	61	61	865	863	17528	256337	3491
Cl II	61	61	1604	1506	9561	258102	1450
Cl III	34	33	1278	1111	949	364878	719
Ar I	52	53	405	396	16649	49824	3553
Ar II	47	47	1001	1024	17188	230953	6982
Ar III	48	48	1682	1790	1881	419776	1008
K I	83	88	1497	1388	2472	49987	732
K II	52	53	405	396	1125	55355	67
K III	47	47	1001	1024	211	313550	232
							old total
Ca I	61	61	515	612	22782	45753	48573
Ca II	57	56	1497	1388	2433	50436	4227
Ca III	52	53	405	396	2897	58089	11740

## Sample recent calculations

	config		levels		----- E1 lines -----		old good
	even	odd	even	odd	good wl	total	
F I							1602
F II							1558
F III							3737
Ne I							3955
Ne II							5585
Ne III							439
Na I	68	79	1255	1894	4456	32848	393
Na II							181
Na III							559
Mg I	61	61	272	316	11127	22612	2672
Mg II	44	43	155	169	2832	6018	580
Mg III	34	35	257	260	1839	21805	846
Al I	67	71	936	952	3255	29081	870
Al II	66	58	435	504	4847	31420	3184
Al III	44	43	155	124	2839	5145	369
Si I	61	61	1616	1588	10578	190165	6835
Si II	61	65	892	872	3006	36504	919
Si III	54	50	363	424	2726	25109	1535
Si IV	44	42	155	124	2440	5033	326

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	config		levels		----- E1 lines -----		
	even	odd	even	odd	good wl	total	old good
H I							1204
He I							1631
He II							469
Li I							568
Li II							142
Be I							53
Be II							234
Be III							29
B I							118
B II							44
B III							131
C I	61	61	1500	1190	29931	184876	7852
C II	58	54	807	762	4148	26735	979
C III							493
C IV							201
N I							6708
N II							1533
N III							402
O I							1275
O II							2182
O III							1069
O IV	54	58	807	762	5742	58706	550

### Sample recent calculations

	config		levels		----- E1 lines -----		old good
	even	odd	even	odd	good wl	total	
Cu I	61	61	920	1260	5720	28112	496
Cu II	61	61	4303	5758	14959	622985	4599
Cu III	61	61	10270	11429	17539	5258607	0
Cu IV	55	50	9563	17365	9563	11857712	0
Cu X	85	86	508	3002	159	2910966	0
Zn I	72	72	566	681	6282	34135	135
Zn II	61	61	926	1286	968	31563	6
Zn III	61	61	4303	5758	12674	640536	3053
Sr I	61	61	519	628	22686	42301	74
Y I	61	61	1634	2141	5393	59226	330
Y II	69	65	806	930	7213	145597	186