Table 1. Gamma Equ: The adopted parameters are $T_{\rm eff}$=7700 K, log g=4.2 (Ryabchikova et al. 1997), vsini=13 km s^{-1}. The radial velocity correction is 44 Km s^{-1}.

λ(obs)	Rc(obs)	Elem.	λ(lab)	log gf	χ_{low} (cm^{-1})	χ_{up} (cm^{-1})	Source[a]	Notes
10729.4	0.80	C I	10729.530	−0.420	60393.140	69710.660	NIST4	
10733.7	0.95	Ti II ?	10733.742	+0.530	62272.385	71586.249	K10Ti2	
10737.6	0.90	?						
10741.9	0.95	Si I	10741.729	−1.100	53362.240	62669.179	MB99	
10749.45	0.80	Si I	10749.378	−0.272	39760.285	49060.601	NIST4	
10749.8	0.83	?						
10754.25	0.92	C I	10753.975	−1.606	60393.140	69689.480	NIST4	
10766.5	0.965	Si I	10766.449	−1.419	54205.090	63490.660	K07Si	
10768.5	0.98	Al I	10768.345	−1.560	32049.804	42233.722	NIST4	
10769.0	0.975	?						
10770.1	0.97	Si I	10770.134	−1.253	53387.334	62669.727	K07Si	
10770.6	0.96	?						
10771.2	0.97	Fe I	10771.229	−1.817	45061.326	54342.775	K07	
		Ti II ?	10771.294	+0.399	62180.398	71461.791	K10Ti2	
10811.05	0.77	Mg I	10811.053	+0.024	47957.045	57204.305	NIST4	
		Mg I	10811.076	−0.137	47957.027	57204.267	NIST4	
		Mg I	10811.097	−1.038	47957.045	57204.267	NIST4	
		Mg I	10811.122	−1.036	47957.027	57204.228	NIST4	
		Mg I	10811.158	−0.305	47957.058	57204.228	NIST4	
10827.2	0.75	Si I	10827.089	+0.239	39955.053	49188.617	NIST4	
		Ca I	10827.013	−0.300	48568.950	39335.522	K07Ca	
10829.5	0.97	Ca I	10829.268	−1.224	45050.419	35818.713	K07Ca	
		Fe II	10829.546	−3.828	54275.637	45044.168	K10	
10833.3	0.955	Ca I	10833.382	−0.244	39335.322	48563.522	K07Ca	blend telluric
10839.25	0.94	Ca I	10838.970	+0.238	39340.080	48563.522	K07Ca	blend telluric
10844.2	0.82	Si I	10843.858	+0.220	47284.061	56503.346	NIST4	
10868.9	0.83	Si I	10868.790	−0.010	40993.775	59131.912	MB99	
10869.65	0.72	Si I	10869.536	+0.286	40991.884	50189.389	NIST4	
		Ca I	10869.492	−0.271	39340.080	48537.623	K07Ca	blend telluric
10871.6	0.96	Fe II	10871.601	−3.034	45079.879	54275.637	K10	
		Fe I	10871.491	−0.490	50901.169	60097.020	K07	
10872.6	0.95	?						
10882.8	0.89	Si I	10882.809	−0.646	48264.292	57450.580	NIST4	
10885.35	0.84	Si I	10885.330	−0.100	49850.830	59034.988	MB99	
10891.8	0.98	Al I	10891.720	−1.110	32965.643	42144.402	NIST4	
10894.8	0.98	Si I	10894.792	−1.680	49933.775	59109.959	MB99	
10896.3	0.98	Fe I	10896.299	−2.692	24772.016	33946.931	K07	
10905.7	0.97	Cr I	10905.863	−0.561	27728.812	36895.681	K10Cr1	
10914.5	0.80	Mg II	10914.244	+0.038	71490.190	80650.020	NIST4	
10915.0	0.74	Sr II	10914.887	−0.638	14555.900	23715.190	WA	
		Mg II	10915.284	−0.918	71491.063	80650.020	NIST4	
10938.2	0.55	H I	10938.086	+0.002	9742.304	109250.343	NIST4	
10951.7	0.85	Mg II	10951.778	−0.219	71491.063	80619.500	NIST4	
10953.35	0.92	Mg I	10953.320	−0.863	47841.119	56968.271	NIST4	
10954.7	0.92	?						
10957.35	0.86	Mg I	10957.276	−0.989	47844.414	56968.271	NIST4	
		Mg I	10957.303	−0.510	47844.414	56968.248	NIST4	blend telluric
10979.3	0.86	Si I	10979.308	−0.562	39955.053	49060.601	NIST4	blend telluric
10982.15	0.88	Si I	10982.058	−0.270	49933.775	59037.043	MB99	
10984.5	0.90	Si I	10984.538	−0.630	49933.775	59034.988	MB99	
11013.6	0.92	Si I	11013.703	−1.310	50054.800	59131.912	MB99	
		Fe I	11013.235	−1.390	38678.036	47755.534	K07	
11015.5	0.94	Cr I	11015.679	−0.420	27820.198	36895.681	K10Cr1	blend telluric
11017.9	0.76	Si I	11017.966	+0.310	50054.800	59128.400	MB99	blend telluric
15505.5	0.84							artifact ?
15532.0	0.95	Fe I	15531.752	−0.236	45509.149	51945.814	K07	
		Fe I	15531.805	−0.281	50342.126	56778.769	K07	
15532.5	0.945	Si I	15532.449	−1.397	54185.264	60621.640	K07Si	

Table 2. Gamma Equ: The adopted parameters are $T_{\rm eff}$=7700 K, log g=4.2 (Ryabchikova et al. 1997), vsini=13 km s^{-1}. The radial velocity correction is 44 Km s^{-1}.

λ(obs)	Rc(obs)	Elem.	λ(lab)	log gf	χ_{low} (cm^{-1})	χ_{up} (cm^{-1})	Source[a]	Notes
15533.5	0.948	?						
15534.4	0.96	Fe I	15534.245	−0.384	45509.149	51944.781	K07	
15535.3	0.965	?						
15538.0	0.96	Fe I	15537.697	−0.031	50998.642	57432.844	K07	
15541.5	0.97	component						
15542.2	0.96	Fe I	15542.079	−0.336	45509.149	51941.537	K07	Zeeman splitting
15542.9	0.96	component						
15550.0	0.97	Fe I	15550.439	−0.145	50998.642	57427.574	K07	
15551.5	0.95	Fe I	15551.435	−0.383	51192.270	57620.788	K07	
15555.4	0.96	Ni I	15555.375	+0.218	44262.599	50689.489	K08	
		H I	15556.467	−1.166	102823.904	109250.343	NIST4	lines hide the core
15557.6	0.91	component ?						
		Si I	15557.779	−0.540	48102.323	54528.220	NIST4	not observed !
15558.25	0.91	component ?						
15561.1	0.96	Fe I	15560.786	−0.487	51207.995	57632.650	K07	
		Si I	15561.251	−1.456	56780.427	63204.890	K07Si	
15566.2	0.97	component ?						
15566.85	0.97	Fe I	15566.727	−0.428	51219.012	57641.215	K07	Zeeman splitting ?
15567.5	0.975	comonent ?						
15571.9	0.985	Fe I	15571.751	−1.162	50981.009	57401.140	K07	
		Fe I	15571.121	−1.414	47420.225	53840.616	K07	
15611.0	0.97	component ?						
		Fe I	15611.146	−3.765	27543.001	33946.931	K07	Zeeman splitting ?
15611.6	0.97	component ?						
15613.2	0.965	component						
15613.7	0.965	Fe I	15613.628	−0.517	51219.012	57621.924	K07	Zeeman splitting
15614.2	0.96	component						
15615.4	0.98	Fe I	15615.420	−1.710	57029.610	50627.433	K07	
15618.0	0.98	Fe I	15617.703	−0.783	57029.610	50628.369	K07	uncertain identification
15621.15	0.93	component						
15621.8	0.91	Fe I	15621.654	+0.586	44677.003	51076.625	K07	Zeeman splitting
15622.5	0.93	components						
15631.25	0.948	component						
		Fe I	15631.386	−1.055	47377.952	53773.590	K07	
15632.05	0.926	Fe I	15631.948	+0.122	43163.323	49558.731	K07	Zeeman splitting
15632.8	0.944	component						
15647.2	0.978	component						
15648.6	0.966	Fe I	15648.510	−0.596	43763.977	50152.616	K07	Zeeman splitting
15650.15	0.976	component						
15652.2	0.976	component						
15652.95	0.966	Fe I	15652.874	−0.170	50377.905	56764.763	K07	Zeeman splitting
15653.7	0.966	component						
15661.5	0.96	component						blend telluric
15662.05	0.934	Fe I	15662.016	+0.382	47005.503	53388.633	K07	Zeeman splitting
15662.75	0.956	component						

Table 3. Gamma Equ: The adopted parameters are $T_{\rm eff}$=7700 K, log g=4.2 (Ryabchikova et al. 1997), vsini=13 km s^{-1}. The radial velocity correction is 44 Km s^{-1}.

λ(obs)	Rc(obs)	Elem.	λ(lab)	log gf	χ_{low} (cm^{-1})	χ_{up} (cm^{-1})	Source[a]	Notes
15664.7	0.98	component						blend telluric
15665.3	0.97	Fe I	15665.243	−0.338	48221.321	54603.136	K07	Zeeman splitting
15665.9	0.984	component						
15674.8	0.96	Si I	15674.653	−1.150	56978.256	63356.24	MB99	
15677.3	0.95	Fe I	15677.015	−0.112	50377.905	56754.928	K07	
15716.0:	0.95	Ce III	15715.837	−3.080	0.000	6361.000	BIE	on the wing of a telluric
		Fe I	15677.521	−0.587	50377.905	56754.722	K07	
15723.65	0.936	Fe I	15723.586	+0.334	45333.872	51692.007	K07	
15740.8	0.83	Mg I	15740.716	−0.212	47841.119	54192.335	NIST4	
15749.0	0.80	Mg I	15748.886	−0.338	47844.414	54192.335	NIST4	
		Mg I	15748.988	+0.140	47844.414	54192.294	NIST4	
15765.9	0.77	Mg I	15765.645	−1.514	47851.162	54192.335	NIST4	
		Mg I	15765.747	−0.337	47851.162	54192.294	NIST4	
		Mg I	15765.842	+0.411	47851.162	54192.256	NIST4	
15769.5	0.87	Fe I	15769.423	+0.700	44677.003	51016.657	K07	
15773.7	0.932	component						
15774.0	0.932	Fe I	15774.071	+0.529	50807.994	57145.780	K07	Zeeman splitting
15774.3	0.928	component						
15818.2	0.88	Fe I	15818.142	+0.576	45061.326	51381.454	K07	blend telluric
		Fe I	15819.134	+0.009	50833.435	57153.167	K07	
15827.3	0.97	Si I	15827.213	−0.690	57198.027	63514.533	MB99	blend telluric
15829.7	0.985	?						
15833.68	0.88	Si I	15833.602	−0.450	50189.389	56503.346	MB99	
15835.1	0.91	Fe I	15835.167	+0.738	50833.435	57146.768	K07	
15837.2	0.942	Fe I	15837.079	−0.993	50901.169	57213.740	K07	
15837.9	0.94	Fe I	15837.646	+0.327	50833.435	57145.780	K07	
15840.35	0.945	?						
15847.8	0.68	Ce III	15847.550	−1.030	1528.320	7836.720	BIE	
15853.1	0.88	C I	15852.576	−0.258	77679.820	83986.220	NIST4	

[a] BIE: Biemont, 2011 (private communication)
MB99: Meléndez & Barbuy 1999
NIST4: http://www.nist.gov/pml/data/asd.cfm
K07Si: http://kurucz.cfa.harvard.edu/atoms/1400/gf1400.pos
K07Ca: http://kurucz.cfa.harvard.edu/atoms/2000/gf2000.pos
K07: http://kurucz.cfa.harvard.edu/atoms/2600/gf2600.pos
K08: http://kurucz.cfa.harvard.edu/atoms/2800/gf2800.pos
K10Ti2: http://kurucz.cfa.harvard.edu/atoms/2201/gf2201.pos
K10: http://kurucz.cfa.harvard.edu/atoms/2601/gf2601.pos
WA:Warner,1968, MNRAS, 139,115