Table 1. HD 161701: A and B are the components of the double system. The adopted parameters are $T_{\rm eff}$=12700 K, log g=4.15, vsini=14 km s^{-1} for the A component and $T_{\rm eff}$=9000 K, log g=4.0, vsini=5 km s^{-1} for the B component. The radial velocity correction is 5 km s^{-1} for the A component. The B components is separated by −65.9 km s^{-1} from the A component.

λ(obs)	Rc(obs)	Comp.	Elem.	λ(lab)	log gf	χ_{low} (cm^{-1})	χ_{up} (cm^{-1})	Source[a]	Notes
10731.4	0.98	B	Ti II	10733.742	+0.530	62272.385	71586.249	K10	
10735.1	0.96		?						
10737.0	0.985	A	Fe II	10737.020	+0.460	103683.070	112994.090	K10	
10737.6	0.98		?						
10749.7:	0.98	A	Fe II	10749.781	−1.016	78237.685	87537.652	K10	with artifact
10766.5	0.98:		?						
10808.5	0.98	B	Mg I	10811.053	+0.024	47957.045	57204.305	NIST4	
		B		10811.076	−0.137	47957.027	57204.267	NIST4	
		B		10811.097	−1.038	47957.045	57204.267	NIST4	
		B		10811.122	−1.036	47957.027	57204.228	NIST4	
		B		10811.158	−0.305	47957.058	57204.228	NIST4	
10820.5	0.99	A	Fe II	10820.360	−1.394	78725.790	87965.096	K10	
10826.3	0.98	A	Fe II	10826.484	−0.670	78237.685	87471.765	K10	
10829.2	0.99	A	He I	10829.091	−0.745	158855.974	169087.831	NIST4	
10830.6	0.98	A	He I	10830.250	−0.268	158855.974	169086.843	NIST4	
		A	He I	10830.340	−0.046	158855.974	169086.866	NIST4	
10833.7	0.975		?						
10870.1	0.975		?						
10872.0	0.96	A	Fe II	10871.601	−3.034	45079.879	54275.637	K10	
			?						
10883.3	0.99		?						
10889.5	0.97		?						
10893.4	0.985	B	Ti II	10895.855	−0.356	62410.960	71586.249	K10	
10894.4	0.98		?						
10912.2	0.97	B	Mg II	10914.244	+0.038	71490.190	80650.020	NIST4	
10912.8	0.96	B	Sr II	10914.887	−0.638	14555.900	23715.190	WA	
		B	Mg II	10915.284	−0.918	71491.063	80650.020	NIST4	
10914.5	0.96	A	Mg II	10914.244	+0.038	71490.190	80650.020	NIST4	
		A	Sr II	10914.887	−0.638	14555.900	23715.190	WA	
10938.1	0.68	A	H I	10938.086	+0.002	97492.304	106632.168	NIST4	
10949.3	0.95	B	Mg II	10951.778	−0.219	71491.063	80619.500	NIST4	
10951.7	0.98	A	Mg II	10951.778	−0.219	71491.063	80619.500	NIST4	
15529.5	0.975		?						
15554.3	0.985	A+B	H I	15556.467	−1.166	101823.904	109250.343	NIST4	
15646.4	0.99		?						
15712.25	0.98	B	Ce III	15715.837	−3.080	0.000	6361.000	BIE	
15745.4	0.99	B	Mg I	15748.886	−0.338	47844.414	54192.335	NIST4	
		B	Mg I	15748.988	+0.140	47844.414	54192.294	NIST4	
15762.3	0.98	B	Mg I	15765.747	−0.337	47851.162	54192.294	NIST4	
		B	Mg I	15765.842	+0.411	47851.162	54192.256	NIST4	
15766.0	0.975	A	Fe II	15766.118	−0.912	83726.364	90067.347	K10	
		B	Fe I	15769.423	+0.700	44677.003	51016.657	K07	
15814.7	0.98	B	Fe I	15818.142	+0.576	45061.326	51381.454	K07	
15844.1	0.95	B	Ce III	15847.550	−1.030	1528.000	7837.000	BIE	
15962.15	0.99	B	Ti II	15865.447	+0.167	65446.38	71747.666	K10	

[a] BIE: Biemont, 2011 (private communication)
NIST4: http://www.nist.gov/pml/data/asd.cfm
K07: http://kurucz.cfa.harvard.edu/atoms/2600
K10: http://kurucz.cfa.harvard.edu/atoms/2601
WA:Warner,1968, MNRAS, 139,115