Table 2. Radial velocities of standard stars

HD	HJD (+2449000)	V_r $\mathrm{km\,s^{-1}}$	I $\mathrm{km\,s^{-1}}$
693	663.367	15.12	0.28
693	692.408	15.99	0.48
693	693.411	15.57	0.28
	$\overline{V_r}$ =	15.44±0.36	
22484	663.507	27.59	0.28
22484	663.528	27.97	0.48
22484	665.610	28.11	0.28
22484	689.403	27.45	0.28
22484	689.450	28.05	0.48
22484	692.473	27.73	0.28
22484	692.544	27.07	0.48
22484	693.546	28.62	0.28
	$\overline{V_r}$ =	27.86±0.44	
89449	470.375	6.07	0.28
89449	471.311	6.13	0.28
89449	472.383	5.04	0.48
89449	472.433	6.87	0.69
89449	473.347	5.39	0.28
89449	474.319	6.19	0.28
89449	505.366	6.49	0.28
89449	506.346	5.83	0.28
89449	507.345	4.69	0.28
89449	509.356	6.03	0.28
89449	663.674	5.62	0.48
89449	692.618	5.88	0.28
89449	692.681	5.65	0.28
89449	693.668	5.72	0.48
89449	693.722	6.13	0.28
	$\overline{V_r}$ =	5.84±0.52	
114762	470.503	47.51	0.48
114762	471.411	47.38	0.28
114762	472.526	47.75	0.48
114762	473.420	48.02	0.28

Table 2. (Continued)

HD	HJD (+2449000)	V_r $\mathrm{km\,s^{-1}}$	I $\mathrm{km\,s^{-1}}$
114762	474.432	48.01	0.28
	$\overline{V_r}$ =	47.77±0.26	
136202	470.593	54.33	0.48
136202	471.499	54.22	0.48
136202	472.597	54.16	0.48
136202	473.555	54.30	0.48
136202	474.504	54.37	0.28
136202	505.503	54.89	0.48
136202	506.474	54.93	1.56
136202	508.381	54.48	0.48
	$\overline{V_r}$ =	54.39±0.27	
187691	470.642	-0.58	0.28
187691	471.638	-0.07	0.28
187691	472.638	0.21	0.28
187691	473.640	-0.01	0.48
187691	474.639	-0.86	0.28
187691	505.598	0.23	0.28
187691	506.558	-0.08	0.48
187691	507.599	-0.39	0.28
187691	509.501	-1.30	0.48
	$\overline{V_r}$ =	-0.27±0.49	
222368	663.287	4.76	0.28
222368	663.395	5.67	0.28
222368	689.321	4.98	0.48
222368	690.296	4.39	0.28
222368	692.320	5.23	0.28
222368	693.300	5.62	0.28
	$\overline{V_r}$ =	5.12±0.45	

Table 3. Radial velocities of A and F giants

HD	HJD (+2449000)	V_r $\mathrm{km\,s^{-1}}$	I $\mathrm{km\,s^{-1}}$
1671	663.445	10.53	0.48
1671	689.354	10.55	0.28
1671	693.444	10.34	0.48
2628	663.451	-10.86	0.28
2628	689.366	-10.67	1.12
2628	693.448	-10.40	0.28
4338	663.410	2.08	0.69
4338	689.381	-0.47	1.34
4338	693.470	5.84	0.94
6706	663.426	23.81	0.28
6706	692.487	23.57	0.69
10845	663.458	-13.97	0.48
10845	689.412	-13.67	0.90
11522	663.436	1.16	0.69
11522	693.514	1.99	1.34
12573	663.471	8.62	0.69
12573	692.522	7.38	0.90
17584	689.423	18.41	0.94
17584	663.481	18.60	0.90
17584	692.387	19.42	0.69
17918	663.491	17.21	0.48
17918	663.552	18.40	0.69
17918	689.434	17.11	0.90
17918	692.396	18.08	0.90
21770	663.500	-46.18	0.28
21770	689.444	-46.35	0.48
21770	692.469	-46.01	0.28

Table 3. (Continued)

HD	HJD (+2449000)	V_r km s^{-1}	I km s^{-1}
24832	663.538	20.61	1.56
24832	692.433	18.20	0.90
24832	693.569	22.67	0.69
30020	663.570	34.31	0.69
30020	692.567	37.19	0.48
30020	693.609	37.87	0.90
34045	663.591	29.89	0.48
34045	689.467	26.19	0.94
34045	692.587	29.18	0.48
48737	663.606	26.12	0.90
48737	665.620	26.30	0.48
48737	689.459	25.77	0.48
48737	692.598	27.35	0.69
48737	693.630	27.56	0.48
50019	663.611	31.17	0.69
50019	664.643	30.75	0.69
50019	665.626	30.30	0.69
50019	692.601	30.04	0.69
50019	693.633	32.39	0.90
60489	663.617	52.67	0.69
60489	665.645	53.42	0.69
60489	692.608	30.81	0.48
60489	693.650	31.65	0.28
62437	663.627	11.13	0.48
62437	665.677	14.46	1.34
62437	692.628	15.99	0.28
62437	693.639	14.12	0.69
69997	663.642	31.67	0.28

Table 3. (Continued)

HD	HJD (+2449000)	V_r $\mathrm{km\,s^{-1}}$	I $\mathrm{km\,s^{-1}}$
69997	692.641	32.79	0.28
69997	692.703	33.18	0.28
69997	693.661	32.59	0.28
82043	663.652	12.25	0.48
82043	692.649	1.73	0.69
82043	692.712	1.41	0.69
82043	693.679	0.14	0.48
84607	663.660	13.65	0.48
84607	692.660	12.25	0.69
84607	692.723	13.50	0.69
84607	693.690	13.09	0.48
86611	663.688	26.47	0.90
86611	692.669	24.42	0.90
86611	692.732	25.79	0.69
86611	693.699	25.04	1.34
89025	692.676	-21.20	0.69
89025	693.710	-22.07	0.28
92787	692.689	4.47	0.90
92787	692.692	4.47	0.90
92787	693.715	3.82	0.48
100418	470.406	1.02	0.69
100418	471.327	0.76	0.58
100418	471.390	-0.57	0.69
100418	472.398	2.28	0.28
100418	473.336	0.22	0.69
100418	474.359	-1.81	0.48
100418	506.372	-0.28	0.28
103313	470.461	16.10	0.69
103313	471.340	16.75	0.48

Table 3. (Continued)

HD	HJD (+2449000)	V_r $\mathrm{km\,s^{-1}}$	I $\mathrm{km\,s^{-1}}$
103313	471.463	14.71	0.28
103313	472.413	19.14	0.90
103313	473.359	17.59	0.69
103313	473.440	17.88	0.90
103313	474.378	16.54	0.69
103313	474.414	16.72	0.48
103313	505.387	22.17	1.56
103313	507.364	18.64	0.48
103313	507.397	15.74	2.01
104827	470.475	10.21	0.48
104827	471.352	8.07	0.90
104827	471.399	7.33	0.48
104827	472.443	7.70	0.48
104827	473.373	7.60	0.48
104827	473.482	8.42	0.48
104827	474.332	7.37	0.69
104827	474.479	6.93	0.48
104827	506.394	8.89	0.48
108382	470.486	-2.33	0.48
108382	471.364	-1.97	0.48
108382	471.471	-1.82	0.48
108382	472.457	-2.86	0.69
108382	473.383	-1.97	0.90
108382	473.430	-2.71	0.69
108382	474.345	-1.55	0.90
108382	474.446	-1.89	0.90
118295	470.535	-20.00	0.69
118295	471.375	-19.63	0.69
118295	471.447	-17.52	1.56
118295	472.470	-20.59	0.69
118295	473.401	-18.46	0.94
118295	474.394	-17.76	0.69
118295	505.410	-24.23	0.94

Table 3. (Continued)

HD	HJD (+2449000)	V_r $\mathrm{km\,s^{-1}}$	I $\mathrm{km\,s^{-1}}$
118295	506.420	-19.84	1.34
122703	470.522	-17.63	0.69
122703	471.430	-13.34	0.90
122703	471.485	-21.60	0.69
122703	472.509	-19.21	2.01
122703	473.455	-15.39	0.69
122703	474.464	-17.16	0.94
150453	471.521	0.82	0.69
150453	471.620	0.47	0.69
150453	472.586	0.12	0.28
150453	473.541	0.64	0.48
150453	474.568	-0.10	0.28
150453	506.486	1.54	0.28
150557	471.510	-49.75	0.48
150557	472.492	-49.42	0.69
150557	473.496	-48.36	0.90
150557	474.494	-49.64	0.69
150557	474.540	-50.22	0.48
150557	505.532	-48.20	0.48
150557	506.412	-48.49	0.94
150557	506.467	-50.15	0.28
150557	509.393	-49.60	0.48
155646	470.552	59.76	0.48
155646	471.535	61.08	0.48
155646	472.542	62.36	0.48
155646	473.518	59.78	0.28
155646	474.524	58.64	0.48
155646	505.545	60.05	0.48
155646	506.445	59.95	0.28
155646	506.547	60.70	0.28
159561	470.565	10.69	0.69

Table 3. (Continued)

HD	HJD (+2449000)	V_r $\mathrm{km\,s^{-1}}$	I $\mathrm{km\,s^{-1}}$
159561	472.550	12.23	0.69
159561	472.631	10.25	0.94
159561	473.527	12.03	0.90
159561	474.510	10.82	0.69
159561	505.431	11.46	0.90
159561	506.457	10.65	0.48
159561	507.608	9.68	0.69
159561	509.446	8.29	0.48
171856	470.639	-5.56	2.01
171856	473.620	-5.96	1.34
171856	506.584	-21.70	0.48
171856	508.544	-19.14	0.69
174866	470.625	-39.39	0.94
174866	472.615	-38.50	0.69
174866	473.606	-40.45	0.48
174866	505.585	-40.89	0.90
174866	506.571	-43.56	1.34
174866	509.521	-42.08	0.69
176971	470.575	-34.62	0.90
176971	471.553	-34.28	0.48
176971	472.559	-31.63	0.69
176971	473.560	-35.13	0.48
176971	474.579	-33.63	0.69
176971	474.625	-34.88	1.34
176971	505.461	-34.60	0.94
176971	506.517	-32.51	0.69
176971	509.414	-29.47	1.78
177392	470.608	10.13	0.48
177392	471.577	9.51	1.56
177392	472.603	12.38	0.69
177392	473.580	10.12	0.90
177392	474.593	6.75	0.90

Table 3. (Continued)

HD	HJD (+2449000)	V_r $\mathrm{km\,s^{-1}}$	I $\mathrm{km\,s^{-1}}$
177392	505.481	11.21	0.90
177392	506.502	10.31	2.01
177392	508.525	6.75	0.90
177392	509.459	8.69	0.28
177392	509.539	7.37	0.90
178187	470.600	-24.85	0.69
178187	471.563	-24.43	0.69
178187	472.568	-24.82	0.48
178187	473.570	-25.11	0.94
178187	474.602	-24.69	0.90
178187	505.440	-24.69	0.69
178187	505.518	-25.04	0.90
178187	506.531	-25.03	0.90
178187	507.585	-22.70	0.48
178187	508.506	-23.06	0.69
186005	472.623	-40.39	1.34
186005	474.634	-39.98	0.90
186005	506.593	-39.50	0.90
186005	509.593	-42.63	0.48
187764	471.598	-8.02	0.69
187764	473.589	-5.96	0.48
187764	474.551	-8.39	0.90
187764	474.612	-4.71	0.90
187764	505.560	-6.14	0.69
187764	506.554	-3.10	0.69
187764	509.477	-4.64	0.69
190172	471.628	2.82	0.48
190172	473.628	6.00	0.28
190172	506.602	3.11	0.48
203842	663.228	-25.94	0.69
203842	665.246	-27.74	0.48

Table 3. (Continued)

HD	HJD (+2449000)	V_r $\mathrm{km\,s^{-1}}$	I $\mathrm{km\,s^{-1}}$
203842	690.313	-26.43	0.69
203842	692.296	-24.73	0.90
203842	693.243	-23.22	0.48
204577	663.245	-10.45	0.48
204577	693.273	-8.69	0.69
205852	663.262	-31.90	0.90
205852	692.307	-31.83	0.69
205852	693.308	-32.48	0.69
209166	663.275	5.22	0.28
209166	692.314	6.36	0.28
209166	693.322	6.82	0.48
210516	663.295	10.46	0.69
210516	692.332	11.38	0.94
210516	693.339	12.16	0.94
216701	663.314	12.70	0.48
216701	692.352	15.26	0.69
216701	693.355	11.36	0.48
217131	663.334	-12.12	0.28
217131	693.374	-11.35	0.48
219891	663.352	-3.04	0.90
219891	689.338	-3.01	2.01
219891	693.396	-0.48	0.94
224995	663.383	8.13	0.48
224995	689.302	7.14	0.90
224995	693.431	7.48	0.69

Table 6. Discussion about the duplicity of all photometric metallic F giant stars of Hauck (1986)

HD 1324	Single star (Evans et al., 1964).
HD 2724	δ Scuti (Rodriguez et al., 1994). The V_r measurements of Nordstroem & Andersen (1985) show no variation.
HD 4849	δ Scuti (Rodriguez et al., 1994). The V_r measurements of Nordstroem & Andersen (1985) show no variation.
HD 4919	δ Scuti (Rodriguez et al., 1994). As we only have an old V_r from the catalogue of Campbell (1913). We cannot conclude about the duplicity.
HD 10845	δ Scuti (Rodriguez et al., 1994). Our measurements show no variation.
HD 12311	From his 15 exposures, Campbell (1928) indicated that this star is probably variable. At the time, he had only a few broad lines. Catchpole et al. (1982) observed no variation from 4 measurements. They obtained a mean radial velocity of 15.2 $\pm$3.1 $\mathrm{km\,s^{-1}}$.
HD 13174	Campbell (1928) obtained values covering a large interval [-10,+20 $\mathrm{km\,s^{-1}}$]. This dispersion is probably due essentially to a fast rotation ($v \sin i$ =154), nevertheless we cannot exclude a close companion. Adams et al. (1929) and Abt (1969) gave coherent velocities of about -6 $\mathrm{km\,s^{-1}}$.

Table 6. (Continued)

HD 15233	The comparison between values obtained by Campbell (1913,1928) and by Buscombe& Morris (1958) shows that this star must be a binary with a long period. Indeed, these authors gave very different radial velocities: one found positive velocities, the others negative velocities, with a very good internal coherence if we consider the high rotation ($v \sin i$ = 106 km s^{-1}). We find a value of $P(\chi^2)$ of 0.08 for the measurements of Buscombe & Morris (1958) showing, according to this criterion, that no variation is detected on a scale of 700 days.
HD 17584	Our measurements show no variation. We obtain a velocity of 18 km s^{-1} and Campbell (1913) 14 km s^{-1}.
HD 17918	Our measurements show no variation as is the case of the measurements of Shajn& Albitzky (1932).
HD 30020	The measurements made at OHP are compatible with the preceding ones of Adams et al. (1929) and Abt (1969). The available values are distributed between 34.40 km s^{-1} and 41.50 km s^{-1} with a characteristic time variation of about 0.7 km s^{-1}/day taking into account our measurements of December 1994. The variability is certainly due to an orbit because the photometric variations are less than 1 mmag in the filter B and V of Johnson (Nelson& Kreidl 1993).
HD 33276	The measurements of Campbell (1928) and Abt (1965) show no variation.

Table 6. (Continued)

HD 34045	If we put together our measurements and those of Nordstroem et al. (1985), the velocity varies between 26.32 and 34.70 $\mathrm{km\,s^{-1}}$. The characteristic time of variation is 0.95 $\mathrm{km\,s^{-1}}$/day for our measurements (3 days between two measurments) and 0.91 $\mathrm{km\,s^{-1}}$/day for Nordstroem et al. (1985) (5 days between two measurements). As this star is not known as a δ Scuti, we think it is a tight binary.
HD 40455	For this star, we have only 3 measurements of Nordstroem et al. (1985) on a scale of 300 days. The $P(\chi^2)$ is 0.74 and so this star is probably not a tight binary.
HD 43905	SB1 with a period of 6.5 days (Mayor& Mazeh 1987).
HD 59881	The $P(\chi^2)$ is 0.06 and 0.13 for the measurements of Frost et al. (1929) et Penfold (1971) respectively. So this star is probably not a binary with a small period.
HD 61064	If we put together the measurements of Campbell (1913,1928) and those of Shajn & Albitzky (1932), the mean value of the radial velocity is 45.72 $\mathrm{km\,s^{-1}}$ with a dispersion of 1.72 $\mathrm{km\,s^{-1}}$, so we observe no tangible variation.
HD 61110	The measurements taken from Campbell (1913,1928), Harper (1937), Buscombes& Morris (1958), Abt (1969) give a mean radial velocity of 6.5 $\mathrm{km\,s^{-1}}$ and a dispersion of 3.5 $\mathrm{km\,s^{-1}}$ for 13 data. The dispersion is not so large if we consider the quiet large rotational velocity (90 $\mathrm{km\,s^{-1}}$). So this star is probably not a tight binary.

Table 6. (Continued)

HD 69997	δ Scuti (Rodriguez et al., 1994). Our measurements allow to detect intrinsic variations but no orbital motion.
HD 79940	Single star (Evans et al., 1961). This star is noted SB in the BSC. This probably comes from Abt& Biggs (1972). Indeed, in addition to the authors mentioned above who find a radial velocity of 2.2 ± 1.5 km s^{-1}, they list Campbell (1928, p. 143) who found a radial velocity of 12 km s^{-1} based on 3 measurements. The large rotational velocity probably explains the discrepancy.
HD 84607	We detect no variation of this star at OHP. We obtain a mean radial velocity of 13 km s^{-1} which is compatible with the value of 16.3 $\pm$ 2 given by Shajn& Albitzky (1932). Wilson & Joy (1950) and Abt (1969) both found important fluctuations of velocity, which are spurious, probably due to the rotation. In both cases, the mean value is 13.4 km s^{-1}. The SB notation in the BSC seems to be a premature decision.
HD 85040	δ Scuti (Rodriguez et al., 1994). SB2 with a period of 4.14 days (Rosvick& Scarfe 1991)

Table 6. (Continued)

HD 89025	The data since the beginning of the century show a radial velocity variation about 50 $\mathrm{km\,s^{-1}}$, but no short-term variation is detected, so it is probably not a tight binary as is suggested in the BSC. Indeed, apart from the values of Henroteau (1923) who obtained a mean velocity of about -54 $\mathrm{km\,s^{-1}}$, the others have radial velocities between -30 and 0 $\mathrm{km\,s^{-1}}$ with a mean of -17 $\mathrm{km\,s^{-1}}$. This scatter is probably due both to the quite large $v\sin i$ (81 $\mathrm{km\,s^{-1}}$) and the low dispersion of the spectra ($\approx$ 30Å/mm). The computation of the $P(\chi^2)$ gives 0.88 and 0.53 for the measurements of Jones& Haslam (1969) and Wooley et al. (1971) respectively, and 0 for the old measurements of Abt (1969). Our radial velocities are compatible with those of Adams et al. (1929) who obtained -19.3 $\pm$ 2.9.
HD 89254	The measurements given by Adams et al. (1929), Buscombes& Morris (1958), Abt (1969) and Evans et al. (1961) suggest a constant radial velocity ($\overline{V_r} = 15.8 \pm 4.4$). This dispersion is compatible with a rotational velocity of 76 $\mathrm{km\,s^{-1}}$.
HD 90277	This star shows no variation. The mean velocity is 13.6 $\mathrm{km\,s^{-1}}$ with a dispersion of 2.7 $\mathrm{km\,s^{-1}}$ from the 36 measurements taken from 9 different authors.
HD 90454	From the measurements of Cannon (1920) and those of Nordstroem & Andersen (1985), the $P(\chi^2)$ is 0.31 and 0.03 respectively and so it is probably not a binary.
HD 105841	Single star (Evans 1966).

Table 6. (Continued)

HD 108722	SB1 with a period of 17.954 days (Abt& Levy 1976)
HD 110318	SB2 with a period of 44.4 days (Sanford& Karr 1942)
HD 115604	δ Scuti (Rodriguez et al., 1994). On a time span of about 130 days, M.A. Smith (1982) observes a variation of radial velocity of 6.2 $\mathrm{km\,s^{-1}}$. Such a variation is probably due to pulsation only.
HD 125150	Single star (Evans et al. 1964).
HD 126251	Single star (Wilson& Joy 1950).
HD 147547	Radial velocities are distributed between -60 and -30 $\mathrm{km\,s^{-1}}$ with a mean of about -44 $\mathrm{km\,s^{-1}}$. The large dispersion is probably due to the fast rotation of 145 $\mathrm{km\,s^{-1}}$, nevertheless we cannot exclude a contribution of a companion.
HD 157919	It shows no variation. The mean radial velocity is 37.2$\pm$2.4 $\mathrm{km\,s^{-1}}$ for 14 measurements taken from Campbell (1913), Campbell (1928), Shajn& Albitzky (1932), Evans et al. (1957)
HD 177392	δ Scuti (Rodriguez et al., 1994). Our measurements allow to detect intrinsic variations but no orbital motion.

Table 6. (Continued)

HD 177482	δ Scuti (Rodriguez et al., 1994). Campbell (1928) obtains values covering a large interval [+3,+26 $\mathrm{km\,s^{-1}}$] with the remark "poor lines" and Neubauer (1930) gives a value of 6.5 $\mathrm{km\,s^{-1}}$. With these old values, it is difficult to say anything about the duplicity.
HD 181333	δ Scuti (Rodriguez et al., 1994). On a time span of about 38 days, M.A. Smith (1982) observes a variation of radial velocity of 4.7 $\mathrm{km\,s^{-1}}$. Such a variation is probably due to pulsation only.
HD 196524	Binary star with a probable period of 26.65 years (Abt& Levy 1976). So it will not be integrated in the sample of close binaries.
HD 205852	From the $P(\chi^2)$ value, the measurements of Frost et al. (1929), Jones& Haslam (1969) and this paper show no variations.
HD 208741	Single star (Buscombe& Morris 1958 and Evans et al. 1964).
HD 214441	δ Scuti with a variation of 0.05 mag in visual magnitude (Rodriguez et al., 1994). Nordstroem & Andersen (1985) find a ΔV_r of about 10 kms^{-1} and we then obtain a ratio of 200 $kms^{-1}mag^{-1}$ which is large in comparison with the value of 92 $kms^{-1}mag^{-1}$ given by Breger (1979). We cannot therefore exclude a companion for this star.

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