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LIST OF PROBABLE DELTA SCUTI STARS

There is recently a tremendous progress in the search of Delta Scuti stars. Some years ago only five stars of this type were known, today their number already reached almost forty.

Below a list of 45 bright stars which are probable variables of Delta Scuti type is given. Published photoelectric data for these stars permit us to suspect light variability with the typical amplitude of some hundredths of a magnitude. All these stars have spectral classes in the range A0-F6 and luminosity classes III-V (or other indications of the luminosity in this range). Colour indices (B-V) and (U-B) of the suspected variables indicate the typical location of Delta Scuti stars in the (U-B)-(B-V) diagram: somewhat below the main sequence. Radial velocities of these stars are as small as those of Delta Scuti variables.

In column seven of the Table the absolute magnitudes based on the values of the trigonometric parallax ($\pi > 0.030$) are represented. If the M_V value is not "trigonometric" that is explained in the remarks, which are indicated by asterisks. In column eight the values of the radial velocities are given.

No	HD	CSV	V	B-V	Sp	M_V	V_r
1	1404	100011	4.53	0.05	A2V	-	- 8 km/s
2	8763	-	5.67	0.32	F2V	+2.6	+ 7
3*	8961	100091	4.32	0.17	A7V	-	+ 9
4*	11636	100146	2.64	0.13	A5V	+1.6	- 2
5	16765	102388	5.80	0.51	dF6	-	+ 8
6	16861	100212	6.30	0.06	A2V	-	+ 6
7*	17584	-	4.22	0.34	F2III	+1.75	+14
8	17904	102394	5.34	0.43	F4IV	-	+ 6
9*	19978	100263	5.45	0.19	A4n	+1.8	+ 4
10	21447	100281	5.08	0.05	A1V	-	0
11*	23567	102421	8.28	0.36	A9V	-	+10
12*	26015	102432	6.01	0.40	F3V	-	+36
13	27290	8101	4.25	0.32	F2IV	+2.9	+27
14*	30020	8130	6.83	0.38	F5III	+1.6	+40
15*	40873	100709	6.45	0.18	A7III	+1.54	+20
16	43378	102500	4.47	0.01	A2V	+2.2	- 4

No	HD	CSV	V	B-V	Sp	M_V	V_r
17	48737	100763	3.34	0.44	F5IV	+1.8	+25 km/s
18	55130	102547	6.44	0.46	dF6	-	-13
19*	56537	100844	3.58	0.11	A5V	+1.7	-9
20*	57749	-	5.84	0.35	gF3	+0.25	+11
21*	60489	6589	6.53	0.23	Am	+1.26	+46
22*	71297	100957	5.58	0.22	dF0	+2.50	+27
23*	87696	6770	4.48	0.19	A7V	+2.37	-18
24	97603	101190	2.55	0.13	A4V	+0.6	-21
25	99028	101199	3.93	0.41	F2IV	+2.3	-10
26	102647	101225	2.12	0.09	A3V	+1.5	0
27*	107259	101264	3.88	0.03	A2V	-	+2
28	111604	6964	5.90	0.15	A2V	-	-14
29*	116842	101383	4.01	0.16	A5V	+1.91	-8
30	118232	101392	4.70	0.12	A5V	+2.1	-12
31	125161	101436	4.75	0.20	A7V	+3.0	-17
32	128167	-	4.45	0.36	F2V	+3.5	0
33*	137391	-	4.30	0.30	F0V	+1.9	-10
34*	142105	101534	4.31	0.04	A3V	-	-16
35*	148898	7382	4.45	0.12	A7p	+1.8	+2
36*	159561	101662	2.08	0.15	A5III	+0.8	+13
37	164136	-	4.48	0.39	F2III	-	-22
38*	173648	101763	4.37	0.18	A4m	+0.76	-26
39*	182640	101835	3.36	0.32	F0IV-V	+2.4	-30
40	192514	102988	4.83	0.10	A5IIIIn	-	-21
41*	192696	-	4.32	0.12	A3V	-	-26
42*	202444	102076	3.73	0.38	F5IV	+2.0	-21
43*	210418	102151	3.52	0.08	A2V	+1.6	-6
44*	217782	103110	5.08	0.08	A3Vn	+3.7	+2
45	222602	102277	5.88	0.10	A3Vn	-	+1

Remarks

- 3 = HD 6961 : Spectroscopic binary.
4 = HD 11636: Spectroscopic binary.
7 = HD 17584: O.J.Eggen (ApJ 155,701, 1969) considers this star to be a Delta Scuti variable and gives $M_V(s)$ from ubvy-photometry
9 = HD 19978: M_{vis} is obtained from the spectroscopic parallax (W.S.Adams et al., ApJ 81, 187, 1935).
11 = HD 23567: In the Pleiades cluster (HII No 1266).
12 = HD 26015: In the Hyades cluster.
14 = HD 30020: F-component of the double system. O.J. Eggen (ApJ 155, 701, 1969) considers this star to be a Delta Scuti variable and gives $M_V(s)$ value from the ubvy-photometry.
15 = HD 40873: I.J.Danziger and R.J.Dickens (ApJ 149, 55, 1967) suspected light variability. $M_V(s)$ from ubvy-photometry.

- 19 = HD 56537: Spectroscopic binary.
 20 = HD 57749: $M_V(s)$ from ubvy-photometry.
 21 = HD 60489: Metallic star. $M_V(s)$ from ubvy-photometry.
 22 = HD 71297: Probable metallic star. $M_V(s)$ from ubvy-photometry.
 23 = HD 87696: $M_V(s)$ from ubvy-photometry. Amplitude of light variation is about 0^m09 . Mean period is near 0^d1 according to G.Jackisch (VSS 5, H.1, 1963).
 27 = HD 107259: Spectroscopic binary.
 29 = HD 116842: Member of UMa cluster.
 33 = HD 137391: Spectroscopic binary.
 34 = HD 142105: Light variability suspected by R.H.Baker (PASP 38, 95, 1926) from photoelectric data.
 35 = HD 148898: Sr, Cr-star.
 36 = HD 159561: Spectroscopic triple with $P = 0^d96$.
 38 = HD 173648: A-component of a Beta Lyrae system. Spectroscopic binary with $P = 4^d30$. Metallic star. M_V from C.R.Tolbert (ApJ 139, 1105, 1964).
 39 = HD 182640: Spectroscopic binary. V_r varies with $P=3^h48^m$ and amplitude of 40 km/s.
 41 = HD 192696: Probable spectroscopic binary.
 42 = HD 202444: Spectroscopic binary with $P = 0^d143$.
 43 = HD 210418: Probable spectroscopic binary.
 44 = HD 217782: B-component of ADS 16467 system.

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