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IDENTIFICATION OF THE ROSINO–GUZZI VARIABLES IN SAGITTA

The list below gives accurate coordinates and IRAS identifications for all but one of the 123 red variable stars found by Rosino & Guzzi (1978) on a series of infrared plates. These faint stars lie in very crowded Milky Way fields. To determine accurate positions, each star was examined on the digitized sky survey using the Goddard SkyView facility (Scollick 1997). The IRAS identifications were found using SIMBAD. A few of the stars were bright enough to appear in the GSC or the USNO UJ1.0 and A1.0 catalogues (Monet et al. 1994, Monet 1996); these positions were adopted when available.

The finder chart for the star numbered 67 (MX Sge) does not match the sky at the position given by Rosino & Guzzi. I searched at the positions of nearby IRAS sources, and at various obvious places where a typo might be involved ($\pm 1^\circ$, 1^m , $10'$, etc.), all to no avail. MX Sge must be considered lost for now. The position for star 107 (PP Sge) was given in error by $+1^\circ$ in Dec, and is corrected below.

The table lists equinox 2000 positions, the source of the position (A = A1.0, G = GSC version 1.1, S = SkyView, U = UJ1.0), IRAS names, spectral types from the source paper (they are for the time of maximum), and variable-star designations from the GCVS4 (Kholopov et al. 1985). The final column contains additional remarks; an asterisk indicates a note at the bottom of the table.

I appreciate the efforts of Gérard Jasniewicz (l'Observatoire de Strasbourg) to integrate these stars into the SIMBAD database.

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Table 1: The Rosino–Guzzi Variables

[RG78]	RA (2000)	Dec	s	IRAS	spec	GCVS4	Remarks
1	19 06 14.1	+18 52 01	A	19040+1847		HV Sge	
2	19 06 56.7	+18 20 17	A		M5	HW Sge	
3	19 07 16.2	+18 17 50	A	19050+1813	M8	HX Sge	
4	19 07 26.8	+17 56 30	U	19052+1751	M5	HY Sge	
5	19 07 30.8	+18 17 33	S	19053+1812	M7:	HZ Sge	
6	19 08 11.2	+17 54 54	G		M4	II Sge	GSC 1590-2950
7	19 08 42.0	+18 42 20	S	19064+1837	M7	IK Sge	*
8	19 08 46.1	+18 27 07	A	19065+1822		IM Sge	
9	19 09 06.2	+18 38 00	S	19069+1833	M6	IN Sge	
10	19 09 52.5	+17 39 51	A	19076+1734		IO Sge	*
11	19 09 54.8	+17 20 28	A		M3	IP Sge	
12	19 10 20.6	+17 40 29	S	19081+1735	M2	IR Sge	*
13	19 10 21.2	+17 13 05	S		M6	IQ Sge	
14	19 10 35.8	+17 30 41	A	19083+1725		IS Sge	
15	19 10 40.9	+17 13 00	S			IT Sge	
16	19 10 43.5	+18 56 49	S	19085+1857	M7	IU Sge	
17	19 10 46.4	+19 57 09	A	19085+1952	M10	IV Sge	
18	19 10 57.3	+17 42 04	S	19087+1737	M7	IW Sge	*
19	19 10 57.0	+18 34 34	S		M8	IX Sge	
20	19 11 03.1	+17 20 33	S		M8	IY Sge	crowded
21	19 11 11.5	+18 48 12	G	19089+1843	M9	IZ Sge	GSC 1594-0513
22	19 11 16.8	+17 51 52	G	19090+1746	M7	KK Sge	GSC 1590-3155
23	19 11 33.4	+18 36 14	S	19093+1831	M7	KM Sge	
24	19 11 36.3	+16 45 43	S	19093+1640		KL Sge	
25	19 11 38.7	+20 13 21	A		M4	KN Sge	
26	19 11 39.7	+20 03 02	A	19094+1957	M3	KO Sge	
27	19 11 54.2	+17 18 40	A		M6	KP Sge	
28	19 12 00.0	+16 42 08	A	19097+1637	M5	KQ Sge	
29	19 12 28.6	+19 17 22	A	19102+1912		KR Sge	
30	19 12 37.2	+16 53 53	S		M2	KS Sge	
31	19 12 54.7	+16 39 57	S	19106+1634	M8	KT Sge	
32	19 12 57.9	+17 36 02	S	19107+1730	M3	KU Sge	
33	19 12 59.0	+20 25 30	A			KV Sge	
34	19 13 26.1	+18 26 54	S	19112+1821	M4	KW Sge	
35	19 13 46.6	+17 52 24	S		M5	KX Sge	
36	19 13 47.8	+17 38 55	S		M6	KY Sge	*
37	19 13 55.6	+19 09 04	S	19117+1903		KZ Sge	*
38	19 14 26.3	+19 20 10	S	19122+1914	M8	LL Sge	
39	19 14 31.6	+19 31 30	S		M6	LM Sge	
40	19 14 38.9	+17 35 19	A			LN Sge	*
41	19 14 42.7	+16 19 13	S	19124+1613		V1347 Aql	
42	19 14 43.8	+17 18 04	S	19124+1712	M4	LO Sge	
43	19 14 43.8	+17 55 04	S		M8	LP Sge	
44	19 14 52.6	+20 36 49	S	19127+2031		LQ Sge	
45	19 15 00.7	+20 01 05	S	19128+1955	M4	LR Sge	
46	19 15 02.8	+19 30 57	S		M8	LS Sge	
47	19 15 13.2	+18 03 10	S	19130+1757	M7	LT Sge	
48	19 15 22.6	+17 27 52	A		M3	LU Sge	
49	19 15 27.2	+15 47 55	S	19131+1542	M8	V1349 Aql	*
50	19 15 26.8	+18 57 48	S	19132+1852	M8	LV Sge	
51	19 15 32.9	+15 51 37	S			V1350 Aql	
52	19 15 37.9	+17 11 33	S	19133+1706	M8	LW Sge	
53	19 15 40.4	+16 09 44	S	19134+1604		V1351 Aql	*
54	19 15 37.4	+19 18 05	A	19134+1912	M5	LX Sge	
55	19 15 44.6	+17 03 11	S	19134+1657		LZ Sge	*

Table 1: The Rosin–Guzzi Variables (cont'd.)

[RG78]	RA	(2000)	Dec	s	IRAS	spec	GCVS4	Remarks
56	19 15	43.7	+17 20	44	A	19135+1715		LY Sge
57	19 15	45.1	+18 43	29	S			MM Sge
58	19 16	33.9	+18 22	52	A	19143+1817	M8	MN Sge
59	19 16	37.7	+16 30	45	S	19144+1625		MO Sge
60	19 16	39.9	+18 28	07	S			MP Sge
61	19 17	06.1	+17 30	46	S	19148+1725	M8	MQ Sge
62	19 17	16.0	+17 19	30	S	19150+1714	M10	MR Sge *
63	19 17	20.6	+16 51	54	S			MS Sge *
64	19 17	25.8	+17 55	18	S	19152+1749	M4	MT Sge
65	19 17	34.4	+16 44	52	S	19153+1639		MU Sge
66	19 17	51.4	+18 34	14	S	19156+1828	M6	MV Sge *
67							M3	MX Sge *
68	19 17	56.3	+16 27	18	A			MW Sge *
69	19 17	59.5	+16 48	26	S	19157+1642	M6	MY Sge
70	19 17	59.6	+18 33	54	S		M4	MZ Sge *
71	19 17	59.5	+20 01	25	G	19158+1955	M5	NO Sge GSC 1607-0201
72	19 18	03.0	+17 41	48	S	19158+1736	M8	NN Sge
73	19 18	05.3	+18 48	23	S	19158+1842		NP Sge
74	19 18	08.5	+18 52	40	A		M5	NQ Sge
75	19 19	08.1	+20 49	11	S			NS Sge
76	19 19	33.4	+19 59	03	S	19173+1953	M8	NT Sge *
77	19 19	41.7	+19 24	47	S	19175+1919	M8	NV Sge
78	19 19	43.8	+18 27	23	S		M10	NU Sge
79	19 19	49.3	+19 41	51	S	19176+1936	M8	NX Sge
80	19 19	54.9	+17 33	32	A	19176+1728	M8	NW Sge
81	19 19	57.8	+18 19	37	S		M9	NY Sge
82	19 20	01.3	+20 21	28	S	19178+2015	M6	NZ Sge
83	19 20	04.7	+19 53	23	S	19178+1947	M8	OO Sge
84	19 20	13.2	+18 25	45	S		M6	OP Sge *
85	19 20	29.0	+17 31	38	S		M5	OQ Sge
86	19 20	54.9	+20 24	54	S			NZ Vul
87	19 21	03.1	+20 02	34	S	19188+1956	M9	OO Vul *
88	19 21	04.1	+19 32	54	A	19189+1927	M6	OP Vul
89	19 21	07.2	+20 02	08	S			OQ Vul
90	19 21	20.7	+20 06	13	S	19191+2000	M9	OR Vul
91	19 21	21.0	+20 30	14	S	19191+2024	M8	OS Vul
92	19 21	39.9	+20 01	30	S	19194+1955		OT Vul
93	19 21	47.6	+19 49	39	S			OU Vul
94	19 21	53.8	+19 02	22	S			OR Sge *
95	19 22	09.3	+18 18	54	S	19199+1813		OS Sge
96	19 22	14.5	+19 40	53	S		M8	OV Vul
97	19 22	18.1	+17 31	06	S	19200+1725	M6	OT Sge
98	19 22	24.2	+20 03	45	G	19202+1957	M6	OW Vul GSC 1608-0373
99	19 22	30.2	+17 58	22	S	19202+1752	M8	OU Sge
100	19 22	32.1	+19 53	02	S	19203+1947	M9	OX Vul
101	19 22	45.8	+18 41	04	S	19205+1835	M6	OV Sge
102	19 22	55.0	+18 45	04	A			OW Sge *
103	19 22	53.9	+19 52	22	A			OY Vul
104	19 23	29.9	+18 45	09	S	19212+1839	M8	OX Sge
105	19 23	30.8	+18 49	41	S	19212+1843		OY Sge *
106	19 23	51.3	+17 12	59	S	19216+1707	M6	OZ Sge
107	19 24	08.0	+17 03	03	A			PP Sge *
108	19 24	20.7	+20 00	27	S	19221+1954	M6	OZ Vul
109	19 24	53.2	+19 01	16	S	19226+1855	M8	PQ Sge
110	19 25	10.0	+19 12	14	S		M6	PR Sge

Table 1: The Rosino–Guzzi Variables (concluded)

[RG78]	RA	(2000)	Dec	s	IRAS	spec	GCVS4	Remarks
111	19 25	47.6	+17 37	09	S	19235+1731	M6	PS Sge
112	19 25	49.9	+19 14	44	A	19236+1908	M10	PT Sge *
113	19 25	49.2	+19 30	20	S		M8	PP Vul
114	19 26	00.4	+19 40	37	S	19238+1934	M3	PQ Vul
115	19 26	17.0	+18 12	16	A	19240+1806	M6	PV Sge
116	19 26	17.5	+18 00	18	A	19240+1754	M6	PU Sge
117	19 26	36.1	+19 00	27	A	19244+1854	M2	PW Sge
118	19 26	39.7	+17 44	13	S	19244+1738		PX Sge
119	19 27	05.9	+19 19	35	S	19249+1913	M10	PY Sge
120	19 08	45.0	+17 41	22	S	19065+1736	M6	IL Sge *
121	19 13	35.8	+16 09	48	S			V1346 Aql
122	19 19	04.2	+18 30	55	S			NR Sge
123	19 27	25.8	+18 26	39	S	19252+1820		PZ Sge *

Notes

- 7 ID somewhat uncertain; position is for the northwestern star of a merged pair.
10 this is not the M-dwarf G 142-11.
12 south-southeastern star of a pair.
18 crowded; position is for southwestern of two stars.
36 western star of a merged pair.
37 northern star of a pair.
40 southeastern star of a pair.
49 western of two stars.
53 ID uncertain: alternate candidate at end-figures 40^s7/44^{''}.
55 southwestern star of a trio.
62 northern star of a merged pair.
63 position is just within the error ellipse of IRAS 19151+1646.
66 in the field of cluster Palomar 10.
67 chart does not match the star field at the nominal position.
68 northeastern star of a merged pair.
70 in the field of cluster Palomar 10.
76 northeastern star of two.
84 ID uncertain: position is for the southwestern star of a merged pair.
87 GSC 1608-0453, position slightly offset due to crowding.
94 western of two stars.
102 position is just outside the error ellipse of IRAS 19207+1839.
105 northwestern of two stars.
107 Rosino & Guzzi +1° Dec error.
112 northwestern star of a pair.
120 southwestern star of a pair.
123 ID uncertain: position is for the southmost star of a trio.