

31.9: The Nearest Stars, Brown Dwarfs, and White Dwarfs (Appendix I)

The Nearest Stars, Brown Dwarfs, and White Dwarfs

Star	System	Discovery Name	Distance (light-year)	Spectral Type	Location: RA ¹	Location: Dec ²	Luminosity (Sun = 1)
		Sun	—	G2 V	—	—	1
1	1	Proxima Centauri	4.2	M5.5 V	14 29	−62 40	5×10^{-5}
2	2	Alpha Centauri A	4.4	G2 V	14 39	−60 50	1.5
3		Alpha Centauri B	4.4	K2 IV	14 39	−60 50	0.5
4	3	Barnard's Star	6.0	M4 V	17 57	+04 42	4.4×10^{-4}
5	4	Luhman 16A	6.5	L8	10 49	−53 19	
6		Luhman 16B	6.5	T1	10 40	−53 19	
7	5	WISE 0855-0714	7.3	Y2	08 55	−07 15	
8	4	Wolf 359	7.8	M6 V	10 56	+07 00	2×10^{-5}
9	5	Lalande 21 185	8.3	M2 V	11 03	+35 58	5.7×10^{-3}
10	6	Sirius A	8.6	A1 V	06 45	−16 42	23.1
11		Sirius B	8.6	DA2 ³	06 45	−16 43	2.5×10^{-3}
12	7	Luyten 726-8 A	8.7	M5.5 V	01 39	−17 57	6×10^{-5}
13		Luyten 726-8 B (UV Ceti)	8.7	M6 V	01 39	−17 57	4×10^{-5}
14	8	Ross 154	9.7	M3.5 V	18 49	−23 50	5×10^{-4}
15	9	Ross 248 (HH Andromedae)	10.3	M5.5 V	23 41	+44 10	1.0×10^{-4}
16	10	Epsilon Eridani	10.5	K2 V	03 32	−09 27	0.29
17	11	Lacaille 9352	10.7	M0.5 V	23 05	−35 51	0.011
18	12	Ross 128 (FI Virginis)	10.9	M4 V	11 47	+00 48	3.4×10^{-4}
19	13	Luyten 789-6 A (EZ Aquarii A)	11.3	M5 V	22 38	−15 17	5×10^{-5}
20		Luyten 789-6 B (EZ Aquarii B)	11.3	M5.5 V	22 38	−15 15	5×10^{-5}

Star	System	Discovery Name	Distance (light-year)	Spectral Type	Location: RA ¹	Location: Dec ²	Luminosity (Sun = 1)
21		Luyten 789-6 C (EZ Aquarii C)	11.3	M6.5 V	22 38	−15 17	2×10^{-5}
22	14	61 Cygni A	11.4	K5 V	21 06	+38 44	0.086
23		61 Cygni B	11.4	K7 V	21 06	+38 44	0.041
24	15	Procyon A	11.4	F5 IV	07 39	+05 13	7.38
25		Procyon B	11.4	wd ⁴	07 39	+05 13	5.5×10^{-4}
26	16	Sigma 2398 A	11.5	M3 V	18 42	+59 37	0.003
27		Sigma 2398 B	11.5	M3.5 V	18 42	+59 37	1.4×10^{-3}
28	17	Groombridge 34 A (GX Andromedae)	11.6	M1.5 V	00 18	+44 01	6.4×10^{-3}
29		Groombridge 34 B (GQ Andromedae)	11.6	M3.5 V	00 18	+44 01	4.1×10^{-4}
30	18	Epsilon Indi A	11.8	K5 V	22 03	−56 46	0.150
31		Epsilon Indi Ba	11.7	T1 ⁵	22 04	−56 46	—
32		Epsilon Indi Bb	11.7	T6 ⁶	22 04	−56 46	—
33	19	G 51-15 (DX Cancri)	11.8	M6.5 V	08 29	+26 46	1×10^{-5}
34	20	Tau Ceti	11.9	G8.5 V	01 44	−15 56	0.458
35	21	Luyten 372-58	12.0	M5 V	03 35	−44 30	7×10^{-5}
36	22	Luyten 725-32 (YZ Ceti)	12.1	M4.5 V	01 12	−16 59	1.8×10^{-4}
37	23	Luyten's Star	12.4	M3.5 V	07 27	+05 13	1.4×10^{-3}
38	24	SCR J184-6357 A	12.6	M8.5 V	18 45	−63 57	1×10^{-6}
39		SCR J184-6357 B	12.7	T6 ⁷	18 45	−63 57	—
40	25	Teegarden's Star	12.5	M6 V	02 53	+16 52	1×10^{-5}
41	26	Kapteyn's Star	12.8	M1 V	05 11	−45 01	3.8×10^{-3}
42	27	Lacaille 8760 (AX Microscopium)	12.9	K7 V	21 17	−38 52	0.029

Footnotes

¹Location (right ascension) given for Epoch 2000.0

²Location (declination) given for Epoch 2000.0

³White dwarf stellar remnant

⁴White dwarf stellar remnant

⁵Brown dwarf

⁶Brown dwarf

⁷Brown dwarf

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