

STELLAR PARAMETERS (see Binney + Merrifield Ch. 3)

Table 3.7 The effective-temperature and bolometric-correction scales

Spectral type	Luminosity Class					
	V		III		I	
	T_{eff}/K	BC_V	T_{eff}/K	BC_V	T_{eff}/K	BC_V
O3	52500	-4.75	50000	-4.58	47300	-4.41
O5	44500	-4.40	42500	-4.05	40300	-3.87
O7	38000	-3.68	37000	-3.58	35700	-3.48
O9	33000	-3.33	32000	-3.13	32600	-3.18
B0	30000	-3.16	29000	-2.88	26500	-2.49
B2	22000	-2.35	20300	-2.02	18500	-1.58
B3	18700	-1.94	17100	-1.60	16200	-1.26
B5	15400	-1.46	15000	-1.30	13600	-0.95
B7	13000	-1.02	13200	-0.97	12200	-0.78
B8	11900	-0.80	12400	-0.82	11200	-0.66
A0	9520	-0.30	10100	-0.42	9730	-0.41
A5	8200	-0.15	8100	-0.14	8510	-0.13
F0	7200	-0.09	7150	-0.11	7700	-0.01
F5	6440	-0.14	6470	-0.14	6900	-0.03
G0	6030	-0.18	5850	-0.20	5550	-0.15
G2	5860	-0.20	5450	-0.27	5200	-0.21
G5	5770	-0.21	5150	-0.34	4850	-0.33
K0	5250	-0.31	4750	-0.50	4420	-0.50
K5	4350	-0.72	3950	-1.02	3850	-1.01
M0	3850	-1.28	3800	-1.25	3650	-1.29
M5	3240	-2.73	3330	-2.48	2800	-3.47
M8	2640	-4.1				

SOURCE: From data published in Schmidt-Kaler (1982)

Table 3.13 Physical properties of MS stars

Spectral type	M/M_{\odot}	$\log(L/L_{\odot})$	M_{bol}	M_V	R/R_{\odot}	$\bar{\rho}/\bar{\rho}_{\odot}$
O3	120	6.15	-10.7	-6.0	15	0.035
O5	60	5.90	-10.1	-5.7	12	0.035
O8	23	5.23	-8.4	-4.9	8.5	0.037
B0	17.5	4.72	-7.1	-4.0	7.4	0.043
B3	7.6	3.28	-3.5	-1.6	4.8	0.069
B5	5.9	2.92	-2.7	-1.2	3.9	0.099
B8	3.8	2.26	-1.0	-0.2	3.0	0.14
A0	2.9	1.73	0.3	0.6	2.4	0.21
A5	2.0	1.15	1.7	1.9	1.7	0.41
F0	1.6	0.81	2.6	2.7	1.5	0.47
F5	1.3	0.51	3.4	3.5	1.3	0.59
G0	1.05	0.18	4.2	4.4	1.1	0.79
G5	0.92	-0.10	4.9	5.1	0.92	1.18
K0	0.79	-0.38	5.6	5.9	0.85	1.29
K5	0.67	-0.82	6.7	7.4	0.72	1.79
M0	0.51	-1.11	7.4	8.8	0.60	2.36
M5	0.21	-1.96	9.6	12.3	0.27	10.7
M7	0.12	-2.47	10.8	14.3	0.18	20.6
M8	0.06	-2.92	11.9	16.0	0.1	60

SOURCE: Data published in Schmidt-Kaler (1982)