

, M_V

Intrinsic Colors Zero-Age Main Sequence, V_0

rs)

Locus of stars just starting hydrogen burning; distance
modulus of the Hyades open cluster $m_o-M = 3.28$
(Schmidt-Kaler, 1982)

$(B - V)_o$	$(U - B)_o$	M_V	Sp(V_o)	$(B - V)_o$	$(U - B)_o$	M_V	Sp(V_o)
- 0.33	- 1.20	- 5.2	O4 V_o	+0.40	- 0.01	+ 3.4	F4 V_o
- 0.305	- 1.10	- 3.6	O9.5 V_o	+0.50	0.00	+ 4.1	F8 V_o
- 0.30	- 1.08	- 3.25	B0 V_o	+0.60	+0.08	+ 4.7	G0 V_o
- 0.28	- 1.00	- 2.6	B0.5 V_o	+0.70	+0.23	+ 5.2	G6 V_o
- 0.25	- 0.90	- 2.1	B1.5 V_o	+0.80	+0.42	+ 5.8	K0 V_o
- 0.22	- 0.80	- 1.5	B2.5 V_o	+0.90	+0.63	+ 6.3	K2 V_o
- 0.20	- 0.69	- 1.1	B3 V_o	+1.00	+0.86	+ 6.7	K3.5 V_o
- 0.15	- 0.50	- 0.2	B6 V_o	+1.10	+1.03	+ 7.1	K4.5 V_o
- 0.10	- 0.30	+0.6	B8 V_o	+1.20	+1.13	+ 7.5	K5.5 V_o
- 0.05	- 0.10	+1.1	B9.5 V_o	+1.30	+1.20	+ 8.0	K6.5 V_o
0.00	+0.01	+1.5	A0.5 V_o	+1.40	+1.22	+ 8.8	M0 V_o
+0.05	+0.05	+1.7	A2 V_o	+1.50	+1.17	+10.3	M2 V_o
+0.10	+0.08	+1.9	A4 V_o	+1.60	+1.20	+12.0	M4.5 V_o
+0.15	+0.09	+2.1	A5 V_o	+1.70	+1.32	+13.2	M5.5 V_o
+0.20	+0.10	+2.4	A7 V_o	+1.80	+1.43	+14.2	M7 V_o
+0.25	+0.07	+2.55	A8 V_o	+1.90	+1.53:	+15.5:	
+0.30	+0.03	+2.8	F0 V_o	+2.00	+1.64:	+16.7:	
+0.35	0.00	+3.1	F2 V_o				

Intrinsic Colors in the MK System, Population I

LC	V	III	II	Ib	Iab	Ia	w(VII)
Sp	Intrinsic Color, $(B - V)_0$						
O5	-0.33	-0.32	-0.32	-0.32	-0.31	-0.31	
6	-0.33	-0.32	-0.32	-0.32	-0.31	-0.31	
7	-0.32	-0.32	-0.32	-0.31	-0.31	-0.31	
8	-0.32	-0.31	-0.31	-0.29	-0.29	-0.29	
9	-0.31	-0.31	-0.31	-0.28	-0.27	-0.27	
B0	-0.30	-0.295	-0.29	-0.24	-0.23	-0.23	-0.28
1	-0.265	-0.265	-0.26	-0.20	-0.19	-0.19	
2	-0.24	-0.24	-0.23	-0.18	-0.17	-0.16	
3	-0.205	-0.205	-0.20	-0.14	-0.13	-0.12	-0.22
5	-0.17	-0.17	-0.16	-0.10	-0.10	-0.08	
6	-0.15	-0.15	-0.14	-0.08	-0.08	-0.06	
7	-0.135	-0.13	-0.12	-0.06	-0.05	-0.04	
8	-0.11	-0.11	-0.10	-0.04	-0.03	-0.02	-0.15
9	-0.075	-0.075	-0.07	-0.03	-0.02	0.00	-0.06
A0	-0.02	-0.03	-0.03	-0.01	-0.01	+0.02	-0.00
1	+0.01	+0.01	+0.01	+0.03	+0.02	+0.02	+0.03
2	+0.05	+0.05	+0.03	+0.04	+0.03	+0.03	+0.07
3	+0.08	+0.08	+0.07	+0.06	+0.06	+0.05	+0.10
5	+0.15	+0.15	+0.11	+0.09	+0.09	+0.09	+0.16
7	+0.20	+0.22	+0.16	+0.13	+0.12	+0.12	+0.22
8	+0.25	+0.25	+0.18	+0.14	+0.14	+0.14	

Intrinsic Colors in the MK System, Population I

LC	V	III	II	Ib	Iab	Ia	w(VII)
Sp	Intrinsic Color, $(B - V)_0$						
F0	+0.30	+0.30	+0.25	+0.19	+0.17	+0.17	+0.29
2	+0.35	+0.35	+0.30	+0.23	+0.23	+0.22	+0.35
5	+0.44	+0.43	+0.38	+0.33	+0.32	+0.31	+0.42
8	+0.52	+0.54	+0.58	+0.56	+0.56	+0.56	+0.50
G0	+0.58	+0.65	+0.71	+0.76	+0.76	+0.75	+0.56
2	+0.63	+0.77	+0.81	+0.86	+0.87	+0.87	+0.60
5	+0.68	+0.86	+0.89	+1.00	+1.02	+1.03	+0.68
8	+0.74	+0.94	+0.99	+1.14	+1.14	+1.17	+0.73
K0	+0.81	+1.00	+1.08	+1.20	+1.25	+1.25	+0.81
1	+0.86	+1.07	+1.14	+1.24	+1.32	+1.32	+0.85
2	+0.91	+1.16	+1.29	+1.33	+1.36	+1.36	+0.89
3	+0.96	+1.27	+1.40	+1.46	+1.46	+1.46	+0.96
5	+1.15	+1.50	+1.49	+1.59	+1.60	+1.60	
7	+1.33	+1.53	+1.57	+1.61	+1.63	+1.63	
M0	+1.40	+1.56	+1.58	+1.64	+1.67	+1.67	
1	+1.46	+1.58	+1.59	+1.68	+1.69	+1.69	
2	+1.49	+1.60	+1.59	+1.68	+1.71	+1.71	
3	+1.51	+1.61	+1.60	+1.69	+1.69	+1.69	
4	+1.54	+1.62		+1.75	+1.76	+1.76	
5	+1.64	+1.63			+1.80		
6	+1.73	+1.52					
7	+1.80:	+1.50					
8	+1.93:	+1.50					

Intrinsic Colors in the MK System, Population I

LC	V	III	II	Ib	Iab	Ia	w(DA)
Sp	Intrinsic Color, $(U - B)_0$						
O5	-1.19	-1.18	-1.17	-1.17	-1.17	-1.17	
6	-1.17	-1.17	-1.16	-1.16	-1.16	-1.16	
7	-1.15	-1.14	-1.14	-1.14	-1.14	-1.14	
8	-1.14	-1.13	-1.13	-1.13	-1.13	-1.13	
9	-1.12	-1.12	-1.12	-1.13	-1.13	-1.13	
B0	-1.08	-1.08	-1.08	-1.07	-1.06	-1.05	
1	-0.95	-0.97	-1.00	-0.99	-1.00	-1.00	
2	-0.84	-0.91	-0.92	-0.92	-0.93	-0.96	
3	-0.71	-0.74	-0.82	-0.82	-0.83	-0.85	
5	-0.58	-0.58	-0.69	-0.70	-0.72	-0.76	
6	-0.50	-0.51	-0.62	-0.67	-0.69	-0.72	
7	-0.43	-0.44	-0.54	-0.60	-0.63	-0.68	
8	-0.34	-0.37	-0.44	-0.53	-0.55	-0.62	-1.02
9	-0.20	-0.20	-0.32	-0.46	-0.49	-0.58	-0.90
A0	-0.02	-0.07	-0.20	-0.33	-0.38	-0.44	-0.79
1	+0.02	+0.07	-0.12:	-0.24	-0.29	-0.37	-0.70
2	+0.05	+0.06	-0.05:	-0.20	-0.25	-0.30	-0.63
3	+0.08	+0.10	+0.02:	-0.10:	-0.14	-0.20:	-0.60
5	+0.10	+0.11	+0.08	0.00:	-0.08	-0.10:	-0.58
7	+0.10	+0.11	+0.10	+0.09:	0.00	+0.09:	-0.58
8	+0.09	+0.10	+0.11	+0.11:	+0.11:	+0.12:	

Intrinsic Colors in the MK System, Population I

LC	V	III	II	Ib	Iab	Ia	w(DA)
Sp	Intrinsic Color, $(U - B)_o$						
F0	+0.03	+0.08	+0.12:	+0.15	+0.15	+0.15	- 0.56
2	+0.00	+0.08	+0.14:	+0.19	+0.18	+0.18	- 0.48
5	+0.02	+0.09	+0.16:	+0.27	+0.27	+0.27	
8	+0.02	+0.10	+0.24	+0.40	+0.41	+0.43	- 0.30
G0	+0.06	+0.21	+0.32	+0.50	+0.52	+0.52	- 0.20
2	+0.12	+0.39	+0.42	+0.62	+0.63	+0.65	- 0.12
5	+0.20	+0.56	+0.60	+0.81	+0.83	+0.82	
8	+0.30	+0.70	+0.78	+1.05	+1.07	+1.08	
K0	+0.45	+0.84	+0.95	+1.15	+1.17	+1.18	
1	+0.54	+1.01	+1.07	+1.21	+1.28	+1.28	
2	+0.64	+1.16	+1.33	+1.35	+1.32	+1.32	
3	+0.80	+1.39	+1.58	+1.56	+1.60	+1.60	(+0.37)
5	+0.98	+1.81	+1.74	+1.79	+1.80	+1.80	
7	+1.21	+1.83	+1.79	+1.84:	+1.84:	+1.84:	
M0	+1.22	+1.87	+1.91	+1.90	+1.90	+1.90	
1	+1.21	+1.88	+1.93	+1.92	+1.90	+1.90	
2	+1.18	+1.89	+1.94	+1.95	+1.95	+1.95	
3	+1.16	+1.88	+1.77	+1.98	+1.95	+1.95	
4	+1.15	+1.73		+2.12	+2.00:	+2.05:	
5	+1.24	+1.58		+1.60:	+1.60:	+1.60:	
6	+1.32:	+1.16					
7	+1.40:						
8	+1.53:						