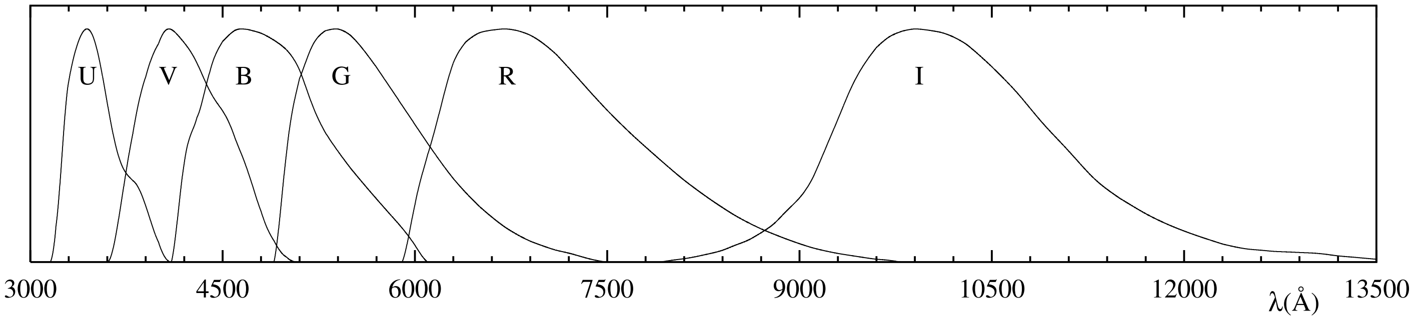
UVBGRI - Stebbins and Whitford - 1943



U

$\lambda_c = 3459$	$\lambda_\circ = 3522$	$\lambda_{peak} = 3442$	$\lambda_{gauss} = 3471$
WHM = 413	W10% = 797	W80% = 255	FWHM = 435

$W_\circ = 463$ — $\frac{A(\lambda)}{A(V)}|_{5.0} = 1.36\,^{1.34}_{1.40}$ — $a = {}^{0.935}_{0.944}$ $b = {}^{2.026}_{1.970}$ *B3*

$\mu = 189$ — $\frac{A(\lambda)}{A(V)}|_{3.1} = 1.61\,^{1.57}_{1.67}$ — $a = {}^{0.941}_{0.949}$ $b = {}^{1.988}_{1.938}$ *Sun*

$I_{asym} = 0.55$ — $\frac{A(\lambda)}{A(V)}|_{2.1} = 1.95\,^{1.88}_{2.06}$ — $\frac{A(\lambda)}{E(B-V)}$: $(4.936, 0.070)^{r=1.00}_{B3}$ $(5.272, 0.091)^{r=1.00}_{Sun}$ $(5.887, 0.067)^{r=1.00}_{M2}$

$I_{kurt} = -0.42$ — $\lambda_{eff} = 3520.9 + 40.3 \times E(B-V)$ r=1.00 — $W_{eff} = 469.3 - 27.0 \times E(B-V)$ r=−0.97

$\lambda_{eff}(T) = 3482 + 104 \times \theta + 101 \times \theta^2 - 46 \times \theta^3$ — $W_{eff}(T) = 443 + 148 \times \theta - 311 \times \theta^2 + 75 \times \theta^3$

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
3511	3561	3536	3586	3638	3555
[480]	[500]	[456]	[377]	[337]	[489]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
3494	3497	3624	3526	3515	3490

V

$\lambda_c = 4200$	$\lambda_\circ = 4222$	$\lambda_{peak} = 4081$	$\lambda_{gauss} = 4183$
WHM = 838	W10% = 1229	W80% = 441	FWHM = 745

$W_\circ = 793$ — $\frac{A(\lambda)}{A(V)}|_{5.0} = 1.23\,^{1.20}_{1.23}$ — $a = {}^{0.989}_{0.992}$ $b = {}^{1.288}_{1.204}$ *B3*

$\mu = 291$ — $\frac{A(\lambda)}{A(V)}|_{3.1} = 1.38\,^{1.33}_{1.37}$ — $a = {}^{0.994}_{0.997}$ $b = {}^{1.167}_{1.075}$ *Sun*

$I_{asym} = 0.28$ — $\frac{A(\lambda)}{A(V)}|_{2.1} = 1.57\,^{1.49}_{1.55}$ — $\frac{A(\lambda)}{E(B-V)}$: $(4.278, 0.046)^{r=0.99}_{B3}$ $(4.499, 0.058)^{r=1.00}_{Sun}$ $(4.942, 0.041)^{r=0.99}_{M2}$

$I_{kurt} = -0.70$ — $\lambda_{eff} = 4219.9 + 80.4 \times E(B-V)$ r=1.00 — $W_{eff} = 811.6 - 70.6 \times E(B-V)$ r=−0.97

$\lambda_{eff}(T) = 4142 + 171 \times \theta + 163 \times \theta^2 - 88 \times \theta^3$ — $W_{eff}(T) = 736 + 350 \times \theta - 621 \times \theta^2 + 152 \times \theta^3$

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
4178	4213	4275	4368	4446	4588
[764]	[757]	[749]	[626]	[501]	[367]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
4211	4272	4092	4186	4280	4197

B

$\lambda_c = 4797$	$\lambda_\circ = 4897$	$\lambda_{peak} = 4647$	$\lambda_{gauss} = 4804$
WHM = 1143	W10% = 1835	W80% = 725	FWHM = 1092

$W_\circ = 1162$ — $\frac{A(\lambda)}{A(V)}|_{5.0} = 1.10\,^{1.08}_{1.11}$ — $a = {}^{1.014}_{1.016}$ $b = {}^{0.545}_{0.393}$ *B3*

$\mu = 429$ — $\frac{A(\lambda)}{A(V)}|_{3.1} = 1.16\,^{1.12}_{1.18}$ — $a = {}^{1.016}_{1.016}$ $b = {}^{0.423}_{0.282}$ *Sun*

$I_{asym} = 0.43$ — $\frac{A(\lambda)}{A(V)}|_{2.1} = 1.24\,^{1.18}_{1.26}$ — $\frac{A(\lambda)}{E(B-V)}$: $(3.718, -0.005)^{r=-0.91}_{B3}$ $(3.876, -0.002)^{r=-0.99}_{Sun}$ $(4.199, -0.033)^{r=-1.00}_{M2}$

$I_{kurt} = -0.53$ — $\lambda_{eff} = 4893.8 + 172.7 \times E(B-V)$ r=1.00 — $W_{eff} = 1207.0 - 199.6 \times E(B-V)$ r=−0.98

$\lambda_{eff}(T) = 4755 + 230 \times \theta + 300 \times \theta^2 - 144 \times \theta^3$ — $W_{eff}(T) = 1041 + 614 \times \theta - 907 \times \theta^2 + 149 \times \theta^3$

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
4781	4800	4899	4979	5100	5219
[1097]	[1120]	[1146]	[1094]	[947]	[875]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
4787	4819	4966	4861	4960	4802

G

$\lambda_c = 5558$	$\lambda_\circ = 5699$	$\lambda_{peak} = 5383$	$\lambda_{gauss} = 5531$
WHM = 1106	W10% = 1932	W80% = 634	FWHM = 1081

$W_\circ = 1150$ — $\frac{A(\lambda)}{A(V)}|_{5.0} = 0.96\,^{0.95}_{0.97}$ — $a = {}^{0.995}_{0.985}$ $b = {}^{-0.034}_{-0.087}$ *B3*

$\mu = 487$ — $\frac{A(\lambda)}{A(V)}|_{3.1} = 0.95\,^{0.94}_{0.96}$ — $a = {}^{0.989}_{0.977}$ $b = {}^{-0.072}_{-0.122}$ *Sun*

$I_{asym} = 0.77$ — $\frac{A(\lambda)}{A(V)}|_{2.1} = 0.93\,^{0.92}_{0.95}$ — $\frac{A(\lambda)}{E(B-V)}$: $(3.029, 0.003)^{r=0.83}_{B3}$ $(3.179, 0.003)^{r=1.00}_{Sun}$ $(3.492, -0.029)^{r=-0.99}_{M2}$

$I_{kurt} = 0.15$ — $\lambda_{eff} = 5691.9 + 180.4 \times E(B-V)$ r=1.00 — $W_{eff} = 1187.6 - 167.1 \times E(B-V)$ r=−0.98

$\lambda_{eff}(T) = 5553 + 177 \times \theta + 274 \times \theta^2 - 94 \times \theta^3$ — $W_{eff}(T) = 1062 + 334 \times \theta - 313 \times \theta^2 - 103 \times \theta^3$

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
5572	5585	5669	5737	5829	5927
[1091]	[1102]	[1137]	[1112]	[1059]	[947]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
5642	5689	5510	5891	5569	5575

R

$\lambda_c = 6954$	$\lambda_\circ = 7141$	$\lambda_{peak} = 6700$	$\lambda_{gauss} = 6913$
WHM = 1665	W10% = 2944	W80% = 986	FWHM = 1651

$W_\circ = 1758$ — $\frac{A(\lambda)}{A(V)}|_{5.0} = 0.72\,^{0.71}_{0.75}$ — $a = {}^{0.876}_{0.859}$ $b = {}^{-0.350}_{-0.388}$ *B3*

$\mu = 724$ — $\frac{A(\lambda)}{A(V)}|_{3.1} = 0.68\,^{0.67}_{0.71}$ — $a = {}^{0.866}_{0.848}$ $b = {}^{-0.372}_{-0.415}$ *Sun*

$I_{asym} = 0.71$ — $\frac{A(\lambda)}{A(V)}|_{2.1} = 0.61\,^{0.60}_{0.65}$ — $\frac{A(\lambda)}{E(B-V)}$: $(2.215, -0.004)^{r=-0.96}_{B3}$ $(2.324, -0.005)^{r=-1.00}_{Sun}$ $(2.487, -0.033)^{r=-1.00}_{M2}$

$I_{kurt} = 0.03$ — $\lambda_{eff} = 7132.7 + 243.3 \times E(B-V)$ r=1.00 — $W_{eff} = 1808.9 - 227.2 \times E(B-V)$ r=−0.98

$\lambda_{eff}(T) = 6887 + 228 \times \theta + 354 \times \theta^2 - 117 \times \theta^3$ — $W_{eff}(T) = 1584 + 428 \times \theta - 95 \times \theta^2 - 323 \times \theta^3$

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
6917	6944	7029	7105	7338	7179
[1630]	[1659]	[1722]	[1740]	[1596]	[1614]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
6970	7051	6651	6806	6851	6929

I

$\lambda_c = 10136$	$\lambda_\circ = 10269$	$\lambda_{peak} = 9903$	$\lambda_{gauss} = 10127$
WHM = 1847	W10% = 3551	W80% = 1118	FWHM = 1917

$W_\circ = 2040$ — $\frac{A(\lambda)}{A(V)}|_{5.0} = 0.38\,^{0.39}_{0.39}$ — $a = {}^{0.571}_{0.561}$ $b = {}^{-0.525}_{-0.515}$ *B3*

$\mu = 871$ — $\frac{A(\lambda)}{A(V)}|_{3.1} = 0.37\,^{0.38}_{0.38}$ — $a = {}^{0.563}_{0.552}$ $b = {}^{-0.517}_{-0.507}$ *Sun*

$I_{asym} = 0.64$ — $\frac{A(\lambda)}{A(V)}|_{2.1} = 0.35\,^{0.36}_{0.37}$ — $\frac{A(\lambda)}{E(B-V)}$: $(1.188, 0.010)^{r=0.99}_{B3}$ $(1.257, 0.013)^{r=1.00}_{Sun}$ $(1.403, 0.005)^{r=0.96}_{M2}$

$I_{kurt} = 0.63$ — $\lambda_{eff} = 10266.6 + 139.1 \times E(B-V)$ r=1.00 — $W_{eff} = 2058.6 - 87.1 \times E(B-V)$ r=−0.98

$\lambda_{eff}(T) = 9999 + 179 \times \theta + 189 \times \theta^2 - 59 \times \theta^3$ — $W_{eff}(T) = 1901 + 192 \times \theta + 83 \times \theta^2 - 165 \times \theta^3$

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
10029	10057	10122	10187	10263	10341
[1923]	[1941]	[1998]	[2031]	[2029]	[2230]