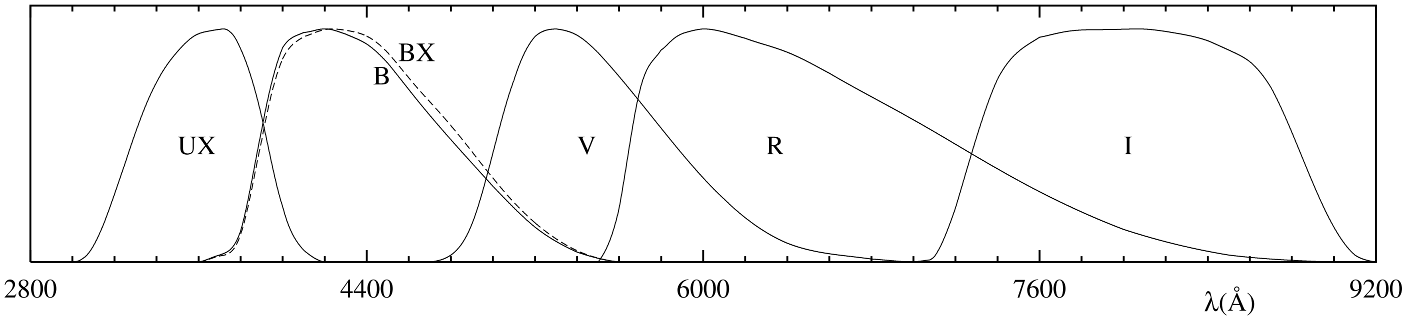
UBVRI - Bessell - 1990



UX

$\lambda_c = 3604$	$\lambda_\circ = 3604$	$\lambda_{peak} = 3717$	$\lambda_{gauss} = 3613$
WHM = 651	W10% = 941	W80% = 430	FWHM = 601
$W_\circ = 639$	$\frac{A(\lambda)}{A(V)}\vert_{5.0} = 1.34\,^{1.32}_{1.37}$	$a = {}^{0.952}_{0.960}$ $b = {}^{1.914}_{1.856}$	*B3*
$\mu = 219$	$\frac{A(\lambda)}{A(V)}\vert_{3.1} = 1.58\,^{1.54}_{1.62}$	$a = {}^{0.957}_{0.963}$ $b = {}^{1.876}_{1.827}$	*Sun*
$I_{asym} = -0.10$	$\frac{A(\lambda)}{A(V)}\vert_{2.1} = 1.90\,^{1.82}_{1.96}$	$\frac{A(\lambda)}{E(B-V)}$: $(4.851, 0.062)^{r=0.99}_{B3}$ $(5.171, 0.085)^{r=1.00}_{Sun}$ $(5.758, 0.067)^{r=1.00}_{M2}$	
$I_{kurt} = -0.71$			

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
3593	3661	3626	3681	3740	3700
[645]	[606]	[648]	[618]	[518]	[601]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
3565	3577	3692	3605	3598	3561

$$\lambda_{eff} = 3604.7 + 47.3 \times E(B-V) \quad r{=}1.00$$
$$W_{eff} = 650.5 - 44.5 \times E(B-V) \quad r{=}{-0.98}$$
$$\lambda_{eff}(T) = 3546 + 173 \times \theta + 72 \times \theta^2 - 58 \times \theta^3$$
$$W_{eff}(T) = 598 + 310 \times \theta - 655 \times \theta^2 + 231 \times \theta^3$$

BX

$\lambda_c = 4386$	$\lambda_\circ = 4433$	$\lambda_{peak} = 4235$	$\lambda_{gauss} = 4373$
WHM = 983	W10% = 1508	W80% = 619	FWHM = 926
$W_\circ = 985$	$\frac{A(\lambda)}{A(V)}\vert_{5.0} = 1.19\,^{1.15}_{1.19}$	$a = {}^{0.997}_{1.003}$ $b = {}^{1.069}_{0.931}$	*B3*
$\mu = 361$	$\frac{A(\lambda)}{A(V)}\vert_{3.1} = 1.31\,^{1.25}_{1.31}$	$a = {}^{1.003}_{1.008}$ $b = {}^{0.910}_{0.770}$	*Sun*
$I_{asym} = 0.44$	$\frac{A(\lambda)}{A(V)}\vert_{2.1} = 1.46\,^{1.37}_{1.46}$	$\frac{A(\lambda)}{E(B-V)}$: $(4.117, 0.022)^{r=0.99}_{B3}$ $(4.297, 0.028)^{r=1.00}_{Sun}$ $(4.676, 0.002)^{r=0.36}_{M2}$	
$I_{kurt} = -0.47$			

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
4352	4379	4475	4574	4675	4819
[940]	[943]	[932]	[810]	[660]	[279]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
4393	4446	4738	4424	4720	4381

$$\lambda_{eff} = 4428.2 + 132.3 \times E(B-V) \quad r{=}1.00$$
$$W_{eff} = 1021.4 - 136.6 \times E(B-V) \quad r{=}{-0.97}$$
$$\lambda_{eff}(T) = 4321 + 212 \times \theta + 252 \times \theta^2 - 124 \times \theta^3$$
$$W_{eff}(T) = 891 + 554 \times \theta - 944 \times \theta^2 + 231 \times \theta^3$$

B

$\lambda_c = 4355$	$\lambda_\circ = 4412$	$\lambda_{peak} = 4204$	$\lambda_{gauss} = 4344$
WHM = 939	W10% = 1494	W80% = 591	FWHM = 900
$W_\circ = 958$	$\frac{A(\lambda)}{A(V)}\vert_{5.0} = 1.19\,^{1.16}_{1.20}$	$a = {}^{0.997}_{1.002}$ $b = {}^{1.094}_{0.957}$	*B3*
$\mu = 360$	$\frac{A(\lambda)}{A(V)}\vert_{3.1} = 1.31\,^{1.25}_{1.32}$	$a = {}^{1.002}_{1.007}$ $b = {}^{0.935}_{0.792}$	*Sun*
$I_{asym} = 0.49$	$\frac{A(\lambda)}{A(V)}\vert_{2.1} = 1.47\,^{1.38}_{1.47}$	$\frac{A(\lambda)}{E(B-V)}$: $(4.135, 0.023)^{r=0.99}_{B3}$ $(4.317, 0.028)^{r=1.00}_{Sun}$ $(4.692, 0.000)^{r=0.07}_{M2}$	
$I_{kurt} = -0.41$			

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
4332	4360	4456	4558	4661	4810
[914]	[913]	[901]	[778]	[618]	[244]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
4373	4428	4709	4402	4699	4361

$$\lambda_{eff} = 4406.9 + 133.8 \times E(B-V) \quad r{=}1.00$$
$$W_{eff} = 993.3 - 132.1 \times E(B-V) \quad r{=}{-0.97}$$
$$\lambda_{eff}(T) = 4301 + 207 \times \theta + 258 \times \theta^2 - 123 \times \theta^3$$
$$W_{eff}(T) = 868 + 529 \times \theta - 908 \times \theta^2 + 218 \times \theta^3$$

V

$\lambda_c = 5438$	$\lambda_\circ = 5513$	$\lambda_{peak} = 5300$	$\lambda_{gauss} = 5433$
WHM = 857	W10% = 1488	W80% = 489	FWHM = 842
$W_\circ = 896$	$\frac{A(\lambda)}{A(V)}\vert_{5.0} = 1.00\,^{1.00}_{1.00}$	$a = {}^{1.003}_{0.998}$ $b = {}^{0.028}_{-0.014}$	*B3*
$\mu = 367$	$\frac{A(\lambda)}{A(V)}\vert_{3.1} = 0.99\,^{1.00}_{1.00}$	$a = {}^{1.000}_{0.994}$ $b = {}^{-0.003}_{-0.044}$	*Sun*
$I_{asym} = 0.67$	$\frac{A(\lambda)}{A(V)}\vert_{2.1} = 0.99\,^{1.00}_{1.00}$	$\frac{A(\lambda)}{E(B-V)}$: $(3.126, 0.022)^{r=0.99}_{B3}$ $(3.304, 0.028)^{r=1.00}_{Sun}$ $(3.677, 0.004)^{r=0.68}_{M2}$	
$I_{kurt} = 0.17$			

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
5437	5447	5501	5547	5603	5688
[867]	[872]	[891]	[877]	[838]	[721]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
5475	5557	5173	5557	5275	5443

$$\lambda_{eff} = 5509.3 + 109.2 \times E(B-V) \quad r{=}1.00$$
$$W_{eff} = 919.4 - 93.6 \times E(B-V) \quad r{=}{-0.98}$$
$$\lambda_{eff}(T) = 5423 + 124 \times \theta + 158 \times \theta^2 - 59 \times \theta^3$$
$$W_{eff}(T) = 851 + 177 \times \theta - 170 \times \theta^2 - 57 \times \theta^3$$

R

$\lambda_c = 6430$	$\lambda_\circ = 6585$	$\lambda_{peak} = 6002$	$\lambda_{gauss} = 6364$
WHM = 1561	W10% = 2588	W80% = 898	FWHM = 1484
$W_\circ = 1579$	$\frac{A(\lambda)}{A(V)}\vert_{5.0} = 0.81\,^{0.79}_{0.84}$	$a = {}^{0.925}_{0.908}$ $b = {}^{-0.250}_{-0.283}$	*B3*
$\mu = 650$	$\frac{A(\lambda)}{A(V)}\vert_{3.1} = 0.77\,^{0.75}_{0.79}$	$a = {}^{0.915}_{0.896}$ $b = {}^{-0.270}_{-0.307}$	*Sun*
$I_{asym} = 0.66$	$\frac{A(\lambda)}{A(V)}\vert_{2.1} = 0.70\,^{0.69}_{0.74}$	$\frac{A(\lambda)}{E(B-V)}$: $(2.494, -0.005)^{r=-0.97}_{B3}$ $(2.616, -0.006)^{r=-1.00}_{Sun}$ $(2.815, -0.041)^{r=-1.00}_{M2}$	
$I_{kurt} = -0.19$			

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
6387	6407	6498	6571	6773	6657
[1471]	[1493]	[1553]	[1567]	[1484]	[1604]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
6467	6357	6575	6565	6594	6390

$$\lambda_{eff} = 6578.6 + 229.3 \times E(B-V) \quad r{=}1.00$$
$$W_{eff} = 1628.3 - 217.3 \times E(B-V) \quad r{=}{-0.98}$$
$$\lambda_{eff}(T) = 6361 + 222 \times \theta + 362 \times \theta^2 - 130 \times \theta^3$$
$$W_{eff}(T) = 1426 + 451 \times \theta - 238 \times \theta^2 - 246 \times \theta^3$$

I

$\lambda_c = 8058$	$\lambda_\circ = 8061$	$\lambda_{peak} = 8067$	$\lambda_{gauss} = 8046$
WHM = 1538	W10% = 1888	W80% = 1252	FWHM = 1402
$W_\circ = 1493$	$\frac{A(\lambda)}{A(V)}\vert_{5.0} = 0.60\,^{0.61}_{0.62}$	$a = {}^{0.784}_{0.778}$ $b = {}^{-0.565}_{-0.577}$	*B3*
$\mu = 462$	$\frac{A(\lambda)}{A(V)}\vert_{3.1} = 0.56\,^{0.56}_{0.58}$	$a = {}^{0.781}_{0.774}$ $b = {}^{-0.572}_{-0.584}$	*Sun*
$I_{asym} = 0.06$	$\frac{A(\lambda)}{A(V)}\vert_{2.1} = 0.50\,^{0.50}_{0.53}$	$\frac{A(\lambda)}{E(B-V)}$: $(1.753, 0.019)^{r=0.99}_{B3}$ $(1.866, 0.025)^{r=1.00}_{Sun}$ $(2.098, 0.015)^{r=0.99}_{M2}$	
$I_{kurt} = -0.99$			

B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
7967	7980	8009	8037	8085	8081
[1442]	[1456]	[1477]	[1490]	[1467]	[1482]
WN	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
8009	8018	7895	7989	8007	7982

$$\lambda_{eff} = 8060.7 + 73.8 \times E(B-V) \quad r{=}1.00$$
$$W_{eff} = 1509.7 - 63.4 \times E(B-V) \quad r{=}{-0.97}$$
$$\lambda_{eff}(T) = 7955 + 97 \times \theta + 114 \times \theta^2 - 49 \times \theta^3$$
$$W_{eff}(T) = 1422 + 145 \times \theta + 10 \times \theta^2 - 110 \times \theta^3$$