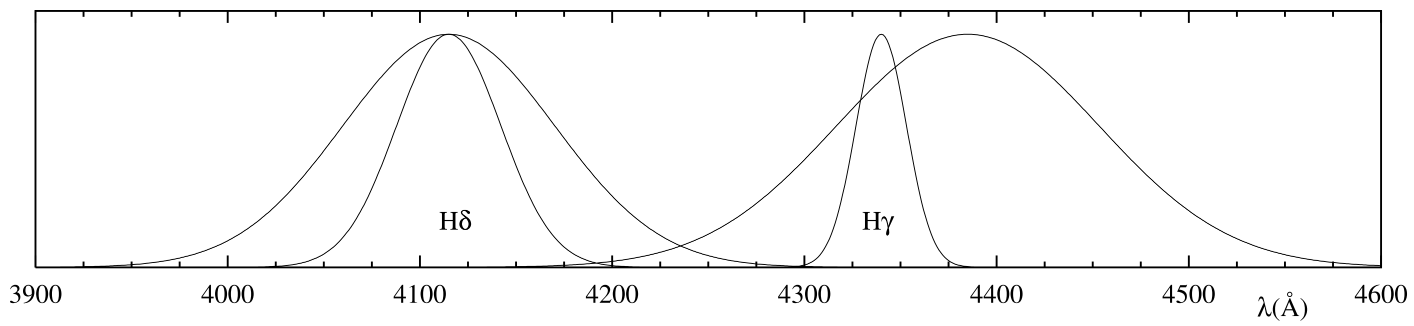
$H\alpha, \beta, \gamma, \delta$ - Abt and Golson - 1965 (continues)



$\boxed{\mathbf{H}\gamma_{narrow}}$ (interference filter) assumed profile: gaussian

$\lambda_c = 4340$
WHM = 31
$W_\circ = 33$

B3	Vega	Sun	K2	M2	Carbon
4340	4339	4340	4341	4342	4335
[32]	[33]	[33]	[33]	[32]	[31]

WN	WC	PN_{Ne}	PN^{Ne}	Nova	WDA
4340	4339	4341	4341	4343	4340

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.22\ ^{1.20}_{1.26}$ $\quad a = ^{0.997}_{0.997}$ $\quad b = ^{1.084}_{1.084}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 1.36\ ^{1.34}_{1.42}$ $\quad a = ^{0.997}_{0.997}$ $\quad b = ^{1.083}_{1.083}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 1.53\ ^{1.49}_{1.64}$ $\quad \frac{A(\lambda)}{E(B-V)}$: $(4.137, 0.078)^{r=1.00}_{B3}$ $\quad (4.443, 0.098)^{r=1.00}_{Sun}$ $\quad (5.074, 0.084)^{r=1.00}_{M2}$

$\lambda_{eff} = 4340.0 + 0.2 \times E(B-V)$ r=1.00 $\qquad W_{eff} = 32.0 - 0.0 \times E(B-V)$ r=-0.95

$\lambda_{eff}(T) = 4339.8 + 0.4 \times \theta + 0.3 \times \theta^2 - 0.1 \times \theta^3$ $\qquad W_{eff}(T) = 32.0 + 0.0 \times \theta - 0.0 \times \theta^2 - 0.0 \times \theta^3$

$\boxed{\mathbf{H}\gamma_{wide}}$ (interference filter) assumed profile: gaussian

$\lambda_c = 4385$
WHM = 161
$W_\circ = 171$

B3	Vega	Sun	K2	M2	Carbon
4382	4386	4391	4395	4399	4437
[171]	[174]	[170]	[165]	[161]	[85]

WN	WC	PN_{Ne}	PN^{Ne}	Nova	WDA
4383	4384	4358	4374	4376	4389

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.21\ ^{1.20}_{1.24}$ $\quad a = ^{0.999}_{0.999}$ $\quad b = ^{1.029}_{1.024}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 1.34\ ^{1.32}_{1.39}$ $\quad a = ^{0.999}_{1.000}$ $\quad b = ^{1.018}_{1.013}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 1.51\ ^{1.47}_{1.59}$ $\quad \frac{A(\lambda)}{E(B-V)}$: $(4.096, 0.075)^{r=1.00}_{B3}$ $\quad (4.392, 0.095)^{r=1.00}_{Sun}$ $\quad (5.007, 0.080)^{r=1.00}_{M2}$

$\lambda_{eff} = 4384.9 + 4.3 \times E(B-V)$ r=1.00 $\qquad W_{eff} = 170.7 - 0.9 \times E(B-V)$ r=-0.96

$\lambda_{eff}(T) = 4380.5 + 9.7 \times \theta + 6.8 \times \theta^2 - 3.5 \times \theta^3$ $\qquad W_{eff}(T) = 169.8 + 2.9 \times \theta - 3.9 \times \theta^2 - 0.7 \times \theta^3$

$\boxed{\mathbf{H}\delta_{narrow}}$ (interference filter) assumed profile: gaussian

$\lambda_c = 4115$
WHM = 64
$W_\circ = 68$

B3	Vega	Sun	K2	M2	Carbon
4115	4117	4116	4114	4116	4100
[68]	[69]	[67]	[66]	[66]	[43]

WN	WC	PN_{Ne}	PN^{Ne}	Nova	WDA
4111	4113	4104	4111	4111	4117

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.26\ ^{1.25}_{1.30}$ $\quad a = ^{0.987}_{0.987}$ $\quad b = ^{1.364}_{1.364}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 1.42\ ^{1.40}_{1.49}$ $\quad a = ^{0.987}_{0.987}$ $\quad b = ^{1.364}_{1.364}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 1.64\ ^{1.60}_{1.76}$ $\quad \frac{A(\lambda)}{E(B-V)}$: $(4.331, 0.081)^{r=1.00}_{B3}$ $\quad (4.653, 0.102)^{r=1.00}_{Sun}$ $\quad (5.314, 0.088)^{r=1.00}_{M2}$

$\lambda_{eff} = 4115.0 + 0.6 \times E(B-V)$ r=1.00 $\qquad W_{eff} = 67.1 - 0.0 \times E(B-V)$ r=-0.95

$\lambda_{eff}(T) = 4114.2 + 1.8 \times \theta + 1.2 \times \theta^2 - 0.6 \times \theta^3$ $\qquad W_{eff}(T) = 67.1 + 0.2 \times \theta - 0.3 \times \theta^2 - 0.1 \times \theta^3$

$\boxed{\mathbf{H}\delta_{wide}}$ (interference filter) assumed profile: gaussian

$\lambda_c = 4115$
WHM = 130
$W_\circ = 138$

B3	Vega	Sun	K2	M2	Carbon
4114	4115	4116	4115	4121	4085
[137]	[138]	[136]	[139]	[132]	[85]

WN	WC	PN_{Ne}	PN^{Ne}	Nova	WDA
4109	4113	4100	4111	4111	4117

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.26\ ^{1.25}_{1.30}$ $\quad a = ^{0.987}_{0.987}$ $\quad b = ^{1.366}_{1.364}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 1.42\ ^{1.40}_{1.50}$ $\quad a = ^{0.987}_{0.987}$ $\quad b = ^{1.364}_{1.361}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 1.64\ ^{1.60}_{1.77}$ $\quad \frac{A(\lambda)}{E(B-V)}$: $(4.333, 0.080)^{r=1.00}_{B3}$ $\quad (4.652, 0.102)^{r=1.00}_{Sun}$ $\quad (5.308, 0.087)^{r=1.00}_{M2}$

$\lambda_{eff} = 4115.0 + 2.5 \times E(B-V)$ r=1.00 $\qquad W_{eff} = 137.5 - 0.4 \times E(B-V)$ r=-0.96

$\lambda_{eff}(T) = 4111.9 + 7.4 \times \theta + 4.8 \times \theta^2 - 2.4 \times \theta^3$ $\qquad W_{eff}(T) = 137.0 + 1.9 \times \theta - 2.8 \times \theta^2 - 0.4 \times \theta^3$