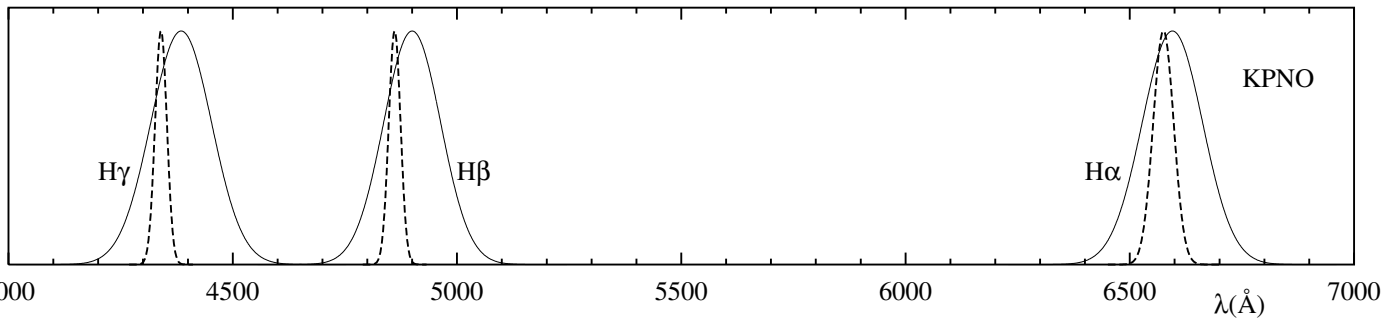
$H\alpha, \beta, \gamma$ - *Feinstein - 1974*



Hα_{wide} (interference filter) assumed profile: gaussian

	B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
$\lambda_c = 6595$	6593	6595	6595	6595	6591	6604
WHM = 159	[170]	[171]	[169]	[169]	[164]	[167]
$W_\circ = 169$	*WN*	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
	6589	6595	6575	6573	6571	6596

$\frac{A(\lambda)}{A(V)}|_{5.0} = 0.84\ ^{0.83}_{0.86}$ $\quad a = {}^{0.906}_{0.906}\ b = {}^{-0.288}_{-0.288}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 0.77\ ^{0.76}_{0.81}$ $\quad a = {}^{0.906}_{0.906}\ b = {}^{-0.288}_{-0.289}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 0.69\ ^{0.67}_{0.73}$ $\quad \frac{A(\lambda)}{E(B-V)}$: $(2.351, 0.043)^{r=1.00}_{B3}$ $(2.525, 0.055)^{r=1.00}_{Sun}$ $(2.887, 0.047)^{r=1.00}_{M2}$

$\lambda_{eff} = 6595.0 + 2.4 \times E(B-V)$ r=1.00 $\quad W_{eff} = 169.3 - 0.3 \times E(B-V)$ r=-0.97

$\lambda_{eff}(T) = 6592.2 + 3.4 \times \theta + 3.6 \times \theta^2 - 1.6 \times \theta^3$ $\quad W_{eff}(T) = 169.0 + 0.6 \times \theta - 0.3 \times \theta^2 - 0.4 \times \theta^3$

Hα_{narrow} (interference filter) assumed profile: gaussian

	B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
$\lambda_c = 6575$	6575	6576	6575	6575	6575	6577
WHM = 54	[58]	[59]	[58]	[58]	[58]	[58]
$W_\circ = 57$	*WN*	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
	6571	6575	6574	6571	6571	6576

$\frac{A(\lambda)}{A(V)}|_{5.0} = 0.84\ ^{0.83}_{0.87}$ $\quad a = {}^{0.908}_{0.908}\ b = {}^{-0.285}_{-0.285}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 0.77\ ^{0.76}_{0.81}$ $\quad a = {}^{0.908}_{0.908}\ b = {}^{-0.285}_{-0.285}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 0.69\ ^{0.67}_{0.74}$ $\quad \frac{A(\lambda)}{E(B-V)}$: $(2.360, 0.044)^{r=1.00}_{B3}$ $(2.536, 0.056)^{r=1.00}_{Sun}$ $(2.896, 0.048)^{r=1.00}_{M2}$

$\lambda_{eff} = 6575.0 + 0.3 \times E(B-V)$ r=1.00 $\quad W_{eff} = 57.5 - 0.0 \times E(B-V)$ r=-0.97

$\lambda_{eff}(T) = 6574.7 + 0.4 \times \theta + 0.4 \times \theta^2 - 0.2 \times \theta^3$ $\quad W_{eff}(T) = 57.5 + 0.0 \times \theta - 0.0 \times \theta^2 - 0.0 \times \theta^3$

Hβ_{wide} (interference filter) assumed profile: gaussian

	B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
$\lambda_c = 4900$	4898	4901	4899	4900	4903	4881
WHM = 150	[161]	[163]	[159]	[158]	[154]	[134]
$W_\circ = 160$	*WN*	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
	4894	4897	4966	4887	4968	4903

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.11\ ^{1.10}_{1.15}$ $\quad a = {}^{1.016}_{1.016}\ b = {}^{0.424}_{0.420}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 1.18\ ^{1.16}_{1.24}$ $\quad a = {}^{1.016}_{1.016}\ b = {}^{0.423}_{0.420}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 1.26\ ^{1.23}_{1.36}$ $\quad \frac{A(\lambda)}{E(B-V)}$: $(3.591, 0.065)^{r=1.00}_{B3}$ $(3.857, 0.083)^{r=1.00}_{Sun}$ $(4.400, 0.071)^{r=1.00}_{M2}$

$\lambda_{eff} = 4900.0 + 3.9 \times E(B-V)$ r=1.00 $\quad W_{eff} = 159.9 - 0.9 \times E(B-V)$ r=-0.96

$\lambda_{eff}(T) = 4896.6 + 6.3 \times \theta + 5.2 \times \theta^2 - 2.6 \times \theta^3$ $\quad W_{eff}(T) = 159.3 + 1.6 \times \theta - 1.7 \times \theta^2 - 0.6 \times \theta^3$

Hβ_{narrow} (interference filter) assumed profile: gaussian

	B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
$\lambda_c = 4861$	4861	4860	4861	4861	4862	4860
WHM = 31	[33]	[34]	[33]	[33]	[33]	[31]
$W_\circ = 33$	*WN*	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
	4861	4861	4861	4862	4860	4861

$\frac{A(\lambda)}{A(V)}|_{5.0} = 1.12\ ^{1.11}_{1.15}$ $\quad a = {}^{1.015}_{1.015}\ b = {}^{0.462}_{0.461}$ *B3*

$\frac{A(\lambda)}{A(V)}|_{3.1} = 1.19\ ^{1.17}_{1.25}$ $\quad a = {}^{1.015}_{1.015}\ b = {}^{0.462}_{0.461}$ *Sun*

$\frac{A(\lambda)}{A(V)}|_{2.1} = 1.28\ ^{1.25}_{1.37}$ $\quad \frac{A(\lambda)}{E(B-V)}$: $(3.627, 0.068)^{r=1.00}_{B3}$ $(3.897, 0.086)^{r=1.00}_{Sun}$ $(4.450, 0.074)^{r=1.00}_{M2}$

$\lambda_{eff} = 4861.0 + 0.2 \times E(B-V)$ r=1.00 $\quad W_{eff} = 33.0 - 0.0 \times E(B-V)$ r=-0.96

$\lambda_{eff}(T) = 4860.9 + 0.3 \times \theta + 0.2 \times \theta^2 - 0.1 \times \theta^3$ $\quad W_{eff}(T) = 33.0 + 0.0 \times \theta - 0.0 \times \theta^2 - 0.0 \times \theta^3$

Hγ_{wide} (interference filter) assumed profile: gaussian

	B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
$\lambda_c = 4385$	4383	4386	4391	4395	4399	4437
WHM = 160	[171]	[174]	[170]	[165]	[161]	[85]
$W_\circ = 170$	*WN*	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
	4383	4384	4358	4374	4376	4389

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

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

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

$\lambda_{eff} = 4384.9 + 4.2 \times E(B-V)$ r=1.00 $\quad W_{eff} = 170.6 - 0.9 \times E(B-V)$ r=-0.96

$\lambda_{eff}(T) = 4380.6 + 9.5 \times \theta + 6.7 \times \theta^2 - 3.4 \times \theta^3$ $\quad W_{eff}(T) = 169.8 + 2.8 \times \theta - 3.8 \times \theta^2 - 0.7 \times \theta^3$

Hγ_{narrow} (interference filter) assumed profile: gaussian

	B3	*Vega*	*Sun*	*K2*	*M2*	*Carbon*
$\lambda_c = 4340$	4340	4339	4340	4341	4342	4335
WHM = 31	[33]	[34]	[34]	[34]	[33]	[32]
$W_\circ = 33$	*WN*	*WC*	PN_{Ne}	PN^{Ne}	*Nova*	*WDA*
	4340	4339	4341	4341	4343	4340

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

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

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

$\lambda_{eff} = 4340.0 + 0.2 \times E(B-V)$ r=1.00 $\quad W_{eff} = 33.0 - 0.0 \times E(B-V)$ r=-0.95

$\lambda_{eff}(T) = 4339.8 + 0.4 \times \theta + 0.3 \times \theta^2 - 0.1 \times \theta^3$ $\quad W_{eff}(T) = 33.0 + 0.0 \times \theta - 0.0 \times \theta^2 - 0.0 \times \theta^3$