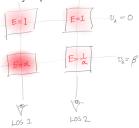
So this time we have more variation in the ourseivity - up and down wit default value



Emissivity Statistics:

Mean:
$$\langle E \rangle = (1 + \alpha + 1 + \alpha^{-1})/4$$

Variance: Var (E) = + x of

$$2 \left[\frac{1}{4} - \frac{1}{4} \left(2 + \alpha + \alpha^{-1} \right) \right]^{2}$$

$$+ \left[\alpha - \frac{1}{4} \left(2 + \alpha + \alpha^{-1} \right) \right]^{2}$$

$$+ \left[\chi^{-1} - \frac{1}{4r} (2 + \chi + \chi^{-1}) \right]^2$$

Alternatively, use
$$Var(E) = \langle E^z \rangle - \langle E \rangle^2$$

$$\langle E^2 \rangle = \frac{1}{4} \left(2 + \alpha^2 + \alpha^{-2} \right)$$

$$\langle E \rangle^{2} = \frac{1}{16} \left(2 + x + xx^{-1} \right)^{2} = \frac{1}{16} \left(4 + 4 + x^{-1} + x^{-1} + (x + x^{-1})^{2} \right)$$

$$(4) \log \left((x + x^{-1})^{2} = x^{2} + 2 + x^{-2} \right)$$

$$(5) \log \left((x + x^{-1})^{2} = x^{2} + 2 + x^{-2} \right)$$

Where
$$(x+x'')^2 = x'^2 + 2 + x'^2$$

 $\Rightarrow \langle E \rangle^2 = \frac{1}{16} \left[6 + 4x + 4x'^2 + x'^2 + x'^2 \right]$

$$\Rightarrow \langle E \rangle^{2} = \frac{1}{16} \left[6 + 4x + 4x^{-1} + x^{-2} + x \right]$$

$$\Rightarrow \forall \alpha r (E) = \frac{1}{16} \left[8 + 4x^{2} + 4x^{-1} - 6 - 4x - 4x^{-1} - x^{2} - x^{2} \right]$$

$$= \frac{1}{16} \left\{ 2 + 3x^{2} + 3x^{-2} - 4x - 4x^{-2} \right\}$$

So, if
$$\alpha \rightarrow \infty$$
 then $\langle E \rangle \rightarrow \alpha/4$
 $\forall \alpha r(E) \rightarrow 3\alpha^{1}/16$
Std(E) $\rightarrow 13\alpha/4$

So Hais is much better - we can have

So this is much better — we communicate a relative width of the distribution as high as
$$\sqrt{3} \approx 1.73$$

a relative undite of the automation is region of the form
$$y$$
 back to $(E^*) = \frac{1}{4r} (K + K^*)^2 = \frac{K^*}{4r} K = K + K^*$
We can write $(E^*) = \frac{1}{4r} (K + K^*)^2 = \frac{K^*}{4r} K = K + K^*$

Whereof
$$\langle E \rangle = \frac{1}{4} (5+8)^{-1} \langle E \rangle_{0}^{2} = \frac{1}{4} (4+48+8)^{-1}$$

$$\Rightarrow$$
 Var(E)= $\langle E_1 \rangle - \langle E \rangle_p = \frac{1}{4} \chi_1 - \frac{1}{4} - \frac{1}{14} \chi - \frac{1}{16} \chi$

$$= \frac{3}{16} x^{2} - \frac{1}{4} (1+8)$$

$$= > 5 + d(E) = \frac{1}{4} \left[38^{2} - 4(1+8) \right]^{\frac{1}{2}}$$

So
$$\sigma_{\rm E} = \frac{\text{Std}({\rm E})}{\langle {\rm E} \rangle} = \left[\frac{3{\rm S}^2 - 4({\rm H}{\rm Y})}{2 + {\rm Y}} \right]^{1/2}$$

What happens when furchasins are small:
$$\alpha = 1+x$$
 with $x < x < 1$:

 $\gamma = \alpha + x^{-1} = 1+x+1-x > 2+o(x^2)$

So that is on, we will get concattation and $\sigma(x) = [c(n)]^2$

Velocity stats should be the same as

calculated previously.
For Los 2, it is identical calculation:

$$\mathcal{F} = \frac{\Delta \beta}{1 + \alpha} \qquad \sigma_{\log, 1} = \beta \frac{\alpha'' \lambda}{1 + \alpha}$$

For LOS2, this same but with emissionines all smaller by a factor of , which makes the difference a color

by a factor of , which was so

$$\Omega_2 = \beta$$
 $\Omega_2 = \beta$
 $\Omega_3 = \beta$
 $\Omega_4 = \beta$
 $\Omega_4 = \beta$
 $\Omega_5 = \beta$
 $\Omega_$

Plane-of-sky relocity variations

$$Var(\bar{v}) = \langle v^2 \rangle_{prs} - \langle v \rangle_{prs}^2$$

$$\langle 3^{\alpha} \rangle_{pos} = \frac{1}{2(1+\alpha)^2} \langle \alpha^2 \beta^2 + \beta^2 \rangle^2 = \frac{\beta^2 (1+\alpha^2)}{2(1+\alpha)^2}$$

$$\langle v \rangle_{\rho rs}^{2} = \frac{\beta^{2}}{4}$$

$$\Rightarrow Vor_{por}(\overline{v}_{ls}) = \frac{\beta^{2}}{4} \left\{ \frac{2(lfd^{2})}{(l+\alpha)^{2}} - 1 \right\}$$

$$= \frac{\beta^{2}}{4(1+\alpha)^{2}} \int_{0}^{2} \frac{2+2\alpha^{2}-(1+\alpha)^{2}}{4(1+\alpha)^{2}} \frac{\beta^{2}}{\beta^{2}}$$

$$\frac{4(1+\alpha)\ell}{(1+\alpha)^2 = 1 + 2\alpha + \alpha^2}$$

$$= \frac{\beta^2}{\alpha(1+\alpha)^2} \int_{\Omega} 1 + \alpha^2 - 2\alpha^2$$

$$=\frac{\beta^2(1-\alpha)^2}{4(1+\alpha)^2}$$

$$\Rightarrow \sigma_{\rho\sigma} = \frac{\beta}{2} \frac{|\alpha - 1|}{\alpha + 1}$$

so, again we have