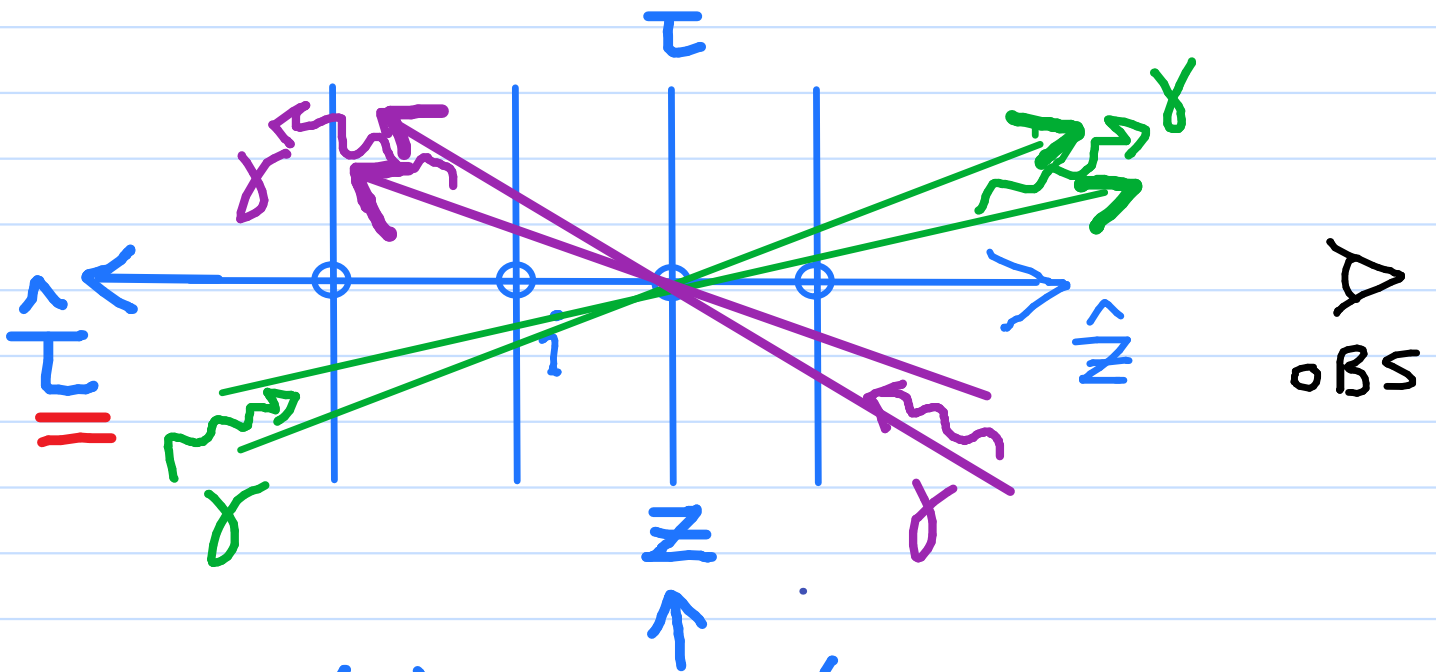


THERMAL EQUILIBRIUM:

$$\underline{T_{\text{KIN}}(\tau)}$$

$$F_{\text{TOT}} = \underline{\text{TOTAL FLUX}}$$

1D FLUX-CONSTANT MODEL:



$$F_{\text{TOT}}(\tau) = F_{\text{TOT}}(z) = \underline{\underline{C}}$$

$$\therefore \frac{dF_{\text{TOT}}(\tau)}{d\tau} = \frac{dF_{\text{TOT}}(z)}{dz} = \underline{\underline{0}}$$

IN GENERAL:

$$\begin{aligned} F_{\text{TOT}}(\tau) &= \tilde{F}_{\text{RAD}}(\tau) + F_{\text{CONVEC}}(\tau) \\ &+ F_{\text{CONDUCT}}(\tau) + F_{\text{MECH}}(\tau) \\ &+ F_{\text{ACOUSTIC}}(\tau) + F_{\text{MHD}}(\tau) \end{aligned}$$

B, A STARS:

$$F_{\text{TOT}}(\tau) \approx \tilde{F}_{\text{RAD}}(\tau) = \zeta$$

$$= \tilde{F}_{\text{RAD}}(0) = \sigma T_{\text{eff}}^4$$

FGKM STARS:

$$F_{\text{TOT}}(\tau) \approx \tilde{F}_{\text{RAD}}(\tau) + \underline{F_{\text{CONVEC}}(\tau)}$$

