

Luminous Blue Variables

Eddington luminosity: maximum luminosity where radiation force balances gravitational force

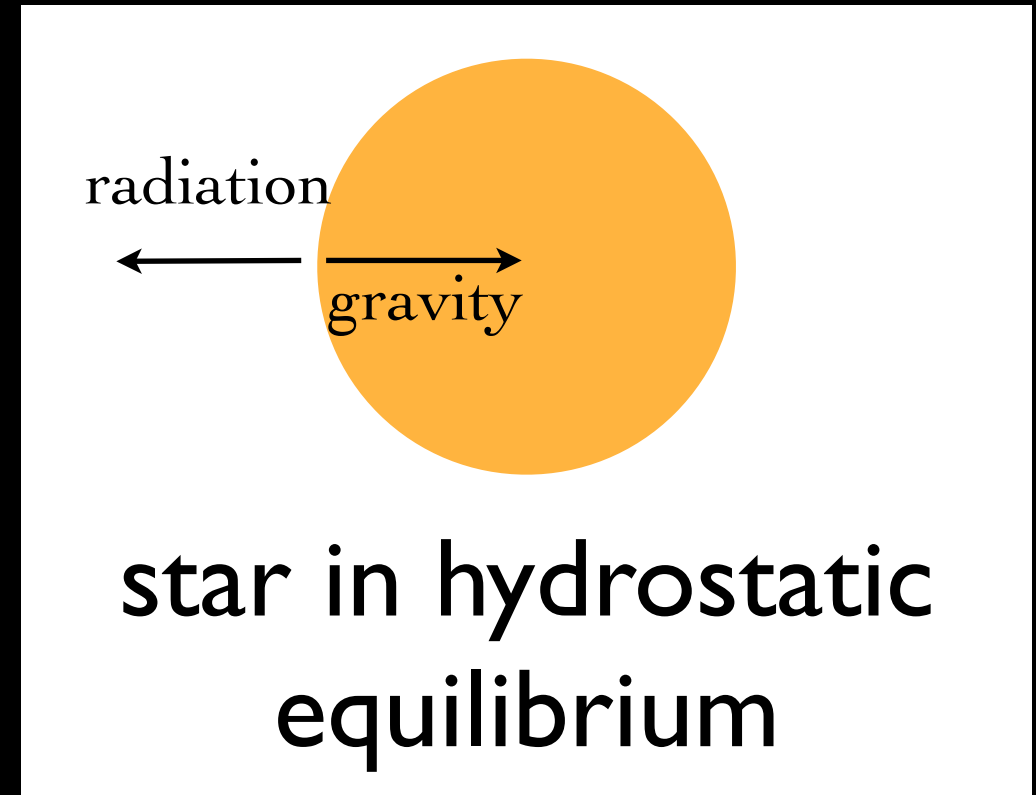
luminosity:

- $M_{\text{bol}} \sim -11$ to -8
- near Eddington limit

$$L_{\text{Edd}} = \frac{4\pi GMm_{\text{p}}c}{\sigma_{\text{T}}}$$

$$L_{\text{Edd}} \sim L_{\text{Edd}}(M, T)$$

$\frac{m_{\text{p}}}{\sigma_{\text{T}}}$ is the opacity of the stellar material



light echoes of η -Carinae

Luminous Blue Variables

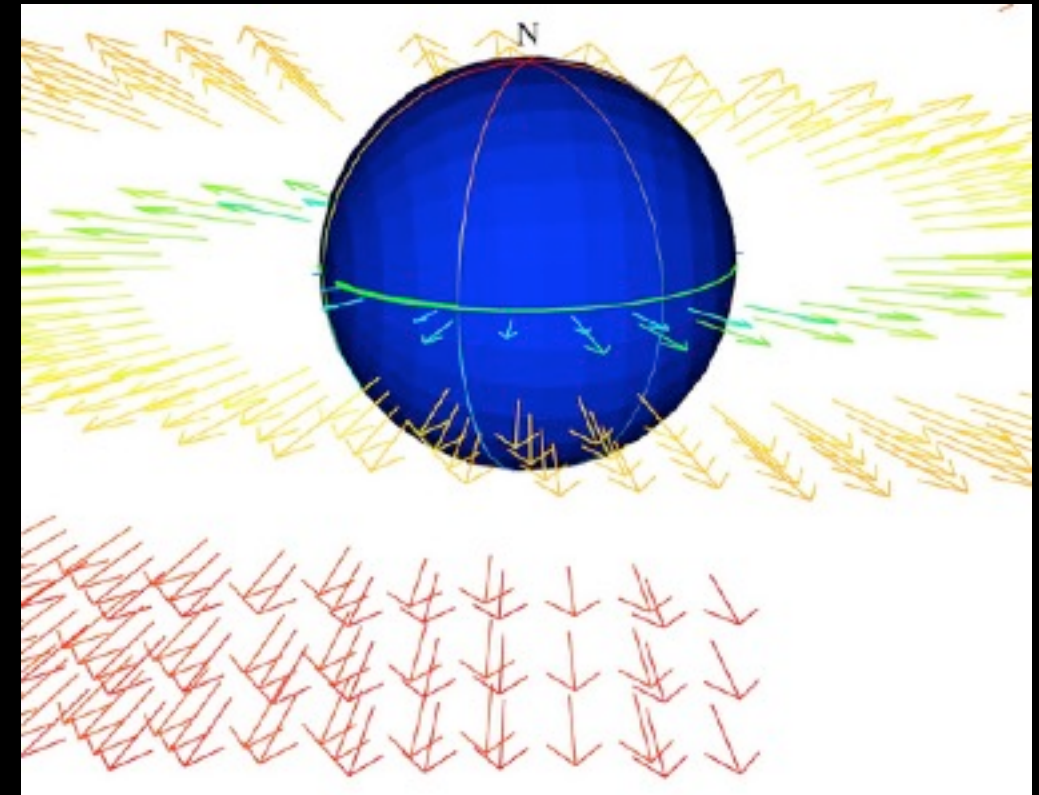
Eddington luminosity: maximum luminosity where radiation force balances gravitational force

luminosity:

- $M_{\text{bol}} \sim -11$ to -8
- near Eddington limit

$$L_{\text{Edd}} = \frac{4\pi GMm_{\text{p}}c}{\sigma_{\text{T}}}$$

$\frac{m_{\text{p}}}{\sigma_{\text{T}}}$ is the opacity of the stellar material



Lobel+ 2008

$$L_{\text{Edd}} \sim L_{\text{Edd}}(M, T)$$

light echoes of η -Carinae