

light echoes of η -Carinae



Linear Blue Variables

Luminous Blue Variables

LBVs, also known as **S Dor-like variables**, or **η -Car-like variables**, a diverse group of hot luminous stars that are photometrically and spectroscopically variable.

luminosity:

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

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Luminous Blue Variables

Eddington luminosity: maximum luminosity where radiation force balances gravitational force

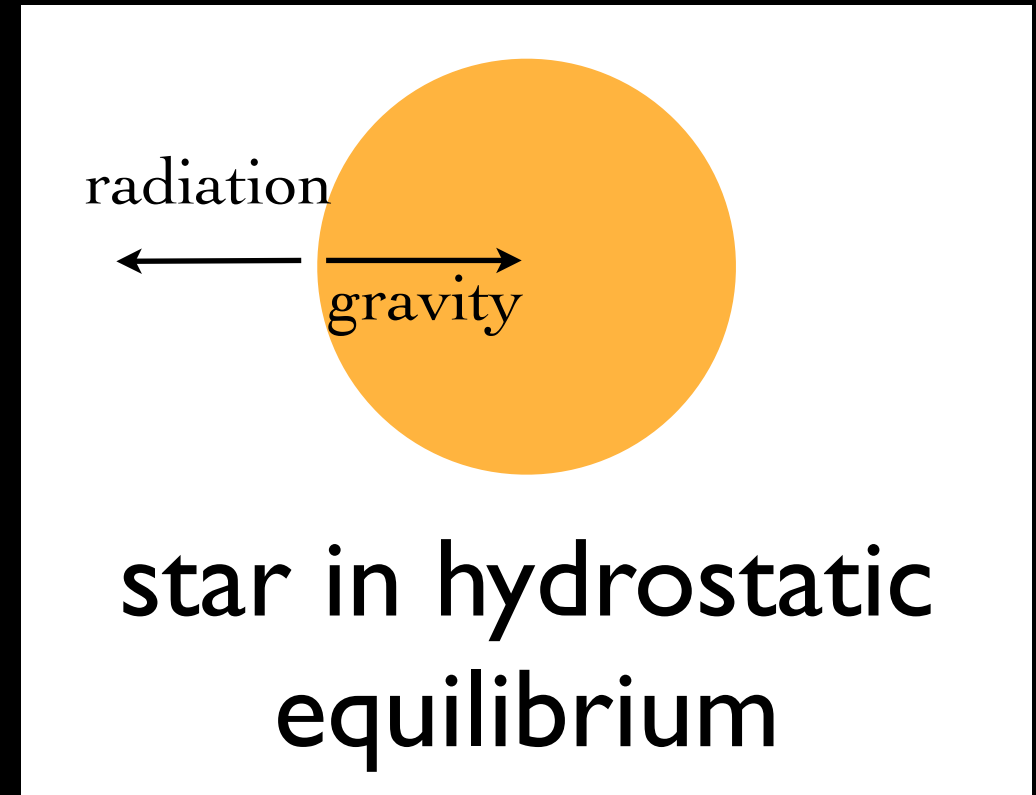
luminosity:

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

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

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



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