

2 The stellar initial mass function [32 points]

The two most popular stellar initial mass functions (IMFs) are the Kroupa and Salpeter IMFs. The Salpeter IMF has the form

$$\frac{dn}{dM} = kM^{-2.35},$$

with M the stellar mass in solar masses (M_{\odot}), n the number density of stars, and k a constant. Hence dn/dM is the number density of stars with masses between M and $M + dM$. The Kroupa IMF has the same powerlaw slope at $M > 0.5M_{\odot}$, but below $0.5M_{\odot}$ the power-law slope is -1.3, and thus

$$\frac{dn}{dM} = k_2M^{-1.30}.$$

This function is called a broken powerlaw. Assume both IMFs are only valid between 0.1 and 100 M_{\odot} , and no stars are formed outside this range.

a. [6 points] Given that the two powerlaws of the Kroupa IMF connect at $0.5M_{\odot}$, write k_2 as a function of k .

As discussed in class the most massive stars still alive dominate the light, and thus, it is extremely challenging to observe the light originating from lower mass stars. In order to

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