

## 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

# Stellar Initial Mass Function

**M Mosston**



**Stellar Initial Mass Function:**

## Adopting the Song of Phrase: An Mental Symphony within **Stellar Initial Mab Function**

In some sort of eaten by monitors and the ceaseless chatter of quick transmission, the melodic elegance and mental symphony created by the published word usually fade into the back ground, eclipsed by the constant noise and interruptions that permeate our lives. However, nestled within the pages of **Stellar Initial Mab Function** a marvelous literary value full of raw feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, this fascinating masterpiece conducts visitors on a psychological journey, skillfully unraveling the concealed songs and profound influence resonating within each cautiously constructed phrase. Within the depths of this emotional examination, we will investigate the book is key harmonies, analyze its enthralling writing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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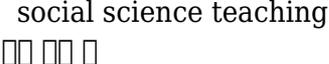
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