

## 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

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**Stellar Initial Mass Function:**

## **Stellar Initial Mab Function** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Stellar Initial Mab Function**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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