

## IntroCosmo24

Homework problems #4

Due November 14, 2024

1. Using the mass function calculate the ratio  $\frac{N(\frac{m}{M_\odot} < 2)}{N(\frac{m}{M_\odot} > 2)}$ . Comments are welcome.
2. Using the mass functions calculate the value of  $\frac{m_*}{M_\odot}$  such that the number of stars with  $m < m_*$  is equal to the number of stars with  $m > m_*$ . Comments are welcome.