STUDLE
Studying The Uniqueness of Disk Lifetimes for Exosystems (pronounced "study")
How does disk lifetime affect planet formation?
Is there a minimum lifetime required to form Jupiter-like planets?
First gas giant at $\tau_{\text{disk}} \sim 0.4$ Myr

First hot Jupiter at $\tau_{\text{disk}} \sim 1.86$ Myr
Is there a maximum lifetime to avoid planets all migrating into the star?
maximum observed disk age

% of planets devoured by star

disk lifetime [Myr]

6.2%
• How does disk lifetime affect planet formation?
  • Lifetime is proportional to number of massive planets

• Is there a minimum lifetime required to form Jupiter-like planets?
  • Yes

• Is there a maximum lifetime to avoid planets all migrating into the star?
  • No