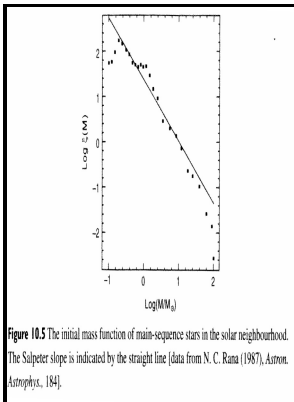


# Stars - their structure and evolution

Wykeham Publications - Stars: Their structure and evolution



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## Stars: Their structure and evolution

For example, astronomers recently discovered that Proxima Centauri, the nearest star to the Sun, has starspots.

## Stars: Their structure and evolution

New out of the remains of the circumstellar disk. The jets and outflows of particles from YSOs can have a profound influence on the surrounding nebula. These experience convection — the circulation of matter — throughout their interior.

## Stellar Structure and Evolution

Asteroseismology is the study of vibrations of a star. Once the available helium supply is used up, the star sheds its outer , exposing the remnant of its core.

## Stellar Structure and Evolution

This can throttle the formation of other stars, either preventing them from forming or keeping them at lower masses. The highest mass stars consume their available hydrogen even more quickly, passing through the main sequence and helium-fusion phase in a much shorter amount of time. None of these stars have lived through their entire lifecycle yet.

## Stellar Structure and Evolution

The core then collapses slightly as it begins fusing helium into carbon and oxygen.

## Stellar Structure and Evolution

These giant stars pulsate and shed huge amounts of matter.

## Stars: Their structure and evolution

For the most massive stars, the cores collapse into ; the slightly less massive stars leave behind. Stars begin their lives spinning fast, and slow down gradually over time.

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