

# Studies of stellar populations - star clusters in M31, the Galaxy and the Magellanic Clouds

California Institute of Technology - Stellar Populations



Description: -

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## Testing stellar population models with star clusters in the Large Magellanic Cloud

Which elements a star is endowed with thus depends not only on when the star formed in the history of its galaxy, but also on how many stars in its part of the galaxy had already completed their lives by the time the star is ready to form. Where clusters lie off the grids, linear extrapolation is used. By plotting these indices against each other on to SSP grids, which are effectively degenerate in age and metallicity, we can look for evidence of any systematic offsets in these data e.

## Stellar Populations in the Galaxy

Profile fits to 12 mercury—cadmium—helium arc-lines allowed us to determine a full width at half-maximum FWHM resolution of the spectra of 6. The vertical extent of each region provides an estimate of the range in allowed masses. Thus, as time goes on, stars are born with larger and larger supplies of heavy elements.

## 25.5 Stellar Populations in the Galaxy

A star has an apparent magnitude of 3.

## ASTR 161 STUDY GUIDE FOR TEST 4

What is the diameter of the Milkyway Galaxy? What is the Mass-Luminosity Law and for which stars is it valid? We assign uncertainties by taking the 50 percentiles in their SWB age range. Dust clouds give the impression that the Pleiades is a nebula, but the dust has actually nothing to do with the cluster itself: they are only dusty material in the foreground.

## The mystery of globular clusters

Calculate what the radial velocity of this star is from Doppler's Equation. This has been a guiding principle of studies of our and other galaxies for decades. In other words, it will likely be accessible to the naked eye and to binoculars.

### **Testing stellar population models with star clusters in the Large Magellanic Cloud**

Herschel and the Island Universe Theory. At the beginning and end of each night, multiple bias-frames were taken in order to correct for large-scale variations on the EEV chip. Optical to far-infrared isochrones with improved TP-AGB models.

### **Astronomy: the most beautiful targets of winter**

Symbols as for previous figure.

### **ASTR 161 STUDY GUIDE FOR TEST 4**

Describe the center of the Galaxy.

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