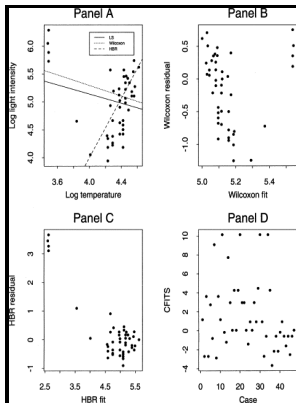


# Pre-main sequence masses and the age spread in the Orion cluster

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Description: -

-Pre-main sequence masses and the age spread in the Orion cluster

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Notes: Thesis (Ph.D.)--University of California, Santa Cruz, 1975.

This edition was published in 1978



Filesize: 39.76 MB

Tags: #CiteSeerX #— #Star #Formation #in #Space #and #Time: #The #Orion #Nebula #Cluster

## [2011.14483] An Improved HR Diagram for the Orion Trapezium Cluster

We find that the extinction law from Cardelli et al. We further show that the rate of acceleration has been the same for all masses. The mean turbulent speed increased to its recent value, which is reflected in the present-day stellar velocity dispersion.

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Finally, the acceleration has been spatially uniform throughout the cluster. Here we present an improved Hertzsprung-Russell H-R diagram of the Trapezium cluster, in which the contamination by optical veiling on spectral types and stellar luminosities has been properly removed. Finally, accelerating star formation implies that most clumps within giant molecular complexes should have relatively low formation activity.

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Outside of the Trapezium, the distribution of stellar masses is remarkably uniform, and is not accurately described by the field-star initial mass function. The deconvolved, three-dimensional density of cluster members peaks at the Trapezium stars, which are truly anomalous in mass.

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Both individuals and organizations that work with arXivLabs have embraced and accepted our values of openness, community, excellence, and user data privacy. Using theoretical pre-main-sequence tracks, we confirm the earlier finding that star formation has accelerated over the past 10<sup>7</sup> yr.

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