

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

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Description:-

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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. Thus, there is no correlation between stellar age and mass, contrary to previous claims.

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

The current ONC will be gravitationally unbound once cloud destruction is complete, and is destined to become a dispersing OB association.

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

We demonstrate this contraction theoretically through a simple energy argument. The magnetic pre-main sequence evolutionary tracks can better explain the luminosities of the low-mass stars.

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

Using theoretical pre-main-sequence tracks, we confirm the earlier finding that star formation has accelerated over the past 10 7 yr. For 68% of the sample the new spectral types are consistent with literature spectral types within 2 subclasses, but as expected, we derive systematically later types than the literature by one to two subclasses for the sources with significant accretion levels. A comparison of the locations of the stars in the H-R diagram with the non-magnetic and magnetic pre-main sequence evolutionary tracks indicates an age of 1--2~Myr.

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