

Workshop

Stellar End Products: The Low Mass - High Mass Connection

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Title:

CO thermal emissions and mass loss of red-supergiants beyond the Milky Way

Abstract:

It is crucial for understanding stellar evolution to study how red-supergiants lose their mass. It is particularly poorly studied beyond the Milky Way. Theory predicted that mass loss rate is lower at low metallicity.

Using the Herschel Space Observatory, we observed CO thermal emission lines in red-supergiants in No obvious metallicity effect was found on the gas mass-loss rate. The key parameter for the mass-loss rate appears to be the luminosity of the star.