

Workshop

Stellar End Products: The Low Mass - High Mass Connection

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Title:

Linking the type II supernovae analysis to progenitor properties

Abstract:

We present a spectroscopic and photometric analysis of type II supernovae (SN II) obtained between 1986 and 2009. We have studied the correlations between their observed properties and their explanations in terms of physical properties, speculating that the most likely parameters which influence in the spectral diversity are the mass and density profile of the hydrogen envelope, together with additional emission components due to circumstellar interaction. Linking these pre-SN properties to initial ZAMS progenitor properties can provide insights into the diversity of SNe II progenitors.