

Workshop

Stellar End Products: The Low Mass - High Mass Connection

ESO Garching, 6-10 July, 2015

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Title:

Supernova progenitors: variations on a theme

Abstract:

One of the main challenges of current supernova research is to identify the nature of stars that explode, and link this knowledge to the observed supernova properties. Nowhere is this problem more urgent than for the most massive stars in the local and distant Universe. Recent exciting results have challenged currently accepted paradigms of stellar evolution, and for these supernovae, ever more exotic scenarios are being proposed. I will review aspects of thermonuclear and core-collapse physics where there is general consensus regarding progenitor systems, but will draw upon some special cases within the currently-accepted frameworks that highlight gaps in our knowledge.