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The Changing Landscape of Type Ia Supernova Progenitors

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In the past, scientists studying progenitors of Type Ia supernova progenitors were faced with a problem getting agreement between the progenitors that population synthesis studies could get in large enough numbers to explain the SNIa population and the progenitors that engine theorists felt worked. This landscape has rapidly changed in the past few years with the dramatic change in our understanding of thermonuclear explosions. I will review the current situation of these engines in the context of supernova progenitors. These new results are prompting new population synthesis studies and I will review some of the recent results in this field. We may be able to distinguish these progenitors based on detailed spectra. I will conclude with a discussion of the current work on SNIa light-curve and spectra calculations and their relevance to SNIa progenitors.