The very interesting lives of intermediate mass stars

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In between the massive "hot stars", with their intense radiation fields, short lives, and powerful winds, and the low-mass "cool stars", with long lives, deep convection and magnetic activity, are the intermediate mass (or "tepid") stars. This broad category of stars is not just a boundary between more interesting types of stars, but is also a stellar setting in which many interesting physical processes have particular effects on stellar atmospheres, structure, and evolution.

This talk will review the general nature of these stars in an evolutionary context. I will discuss various physical processes of importance that affect the structure and radiation from such stars, and explore how studying these processes in the intermediate star setting can help us to understand the processes themselves better. I will also examine the similarities and connections of such stars with both more and less massive stars, from the star formation phase until final collapse.