

The evolution of massive stars: what we know and what we would like to know

Alessandro Chieffi^{*a*}, Marco Limongi^{*b*}

^a IAPS, ^b INAF - OAR

I will review the key properties of the evolution of massive stars from the pre main sequence up to the core bounce plus the follow up of the shock wave and the associated explosive nucleosynthesis. I will discuss in particular which are the weakest points in the predictive power of the present computations as a function of the mass, metallicity and initial rotation velocity.