

The Production of ^{98}Tc through the ν -process in supernova explosion

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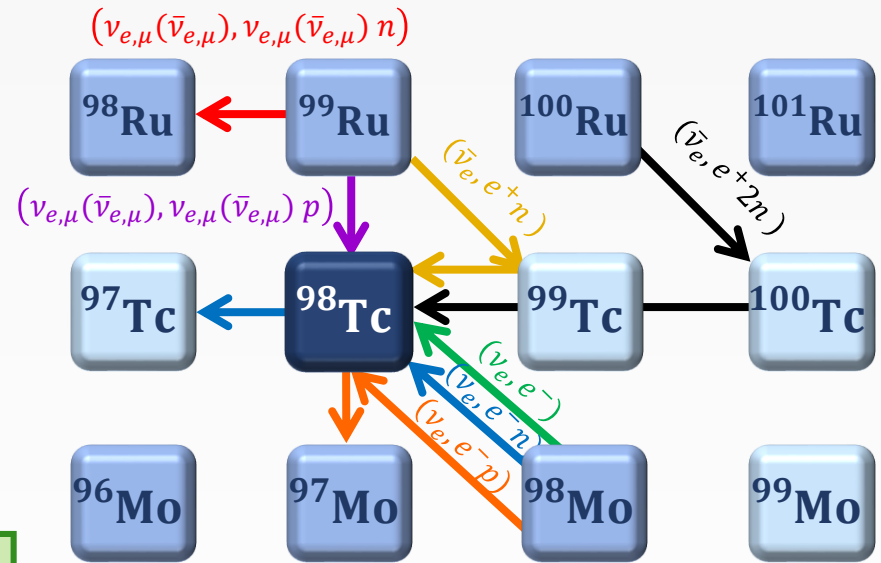
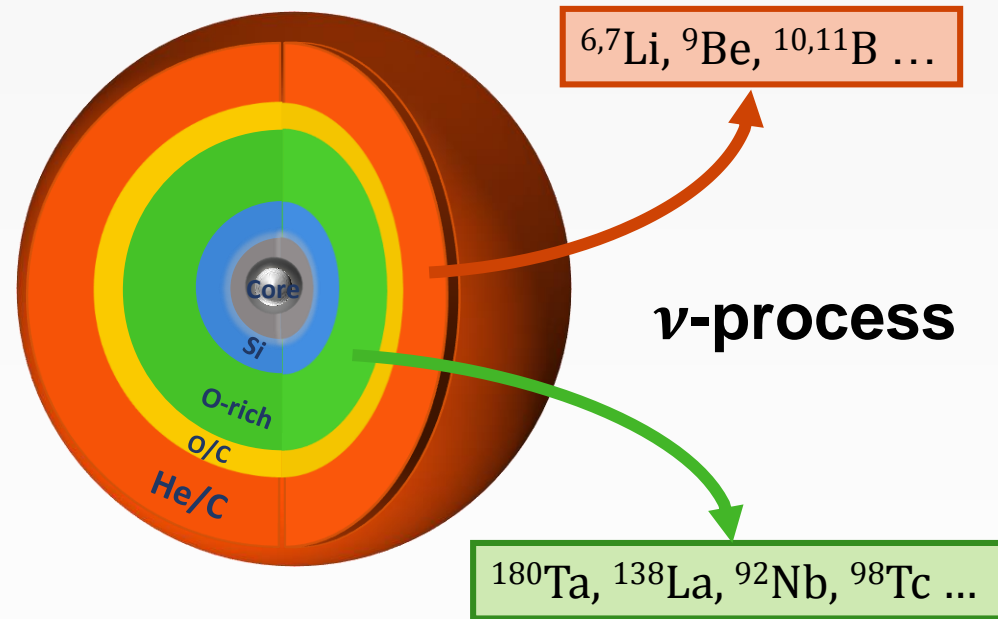
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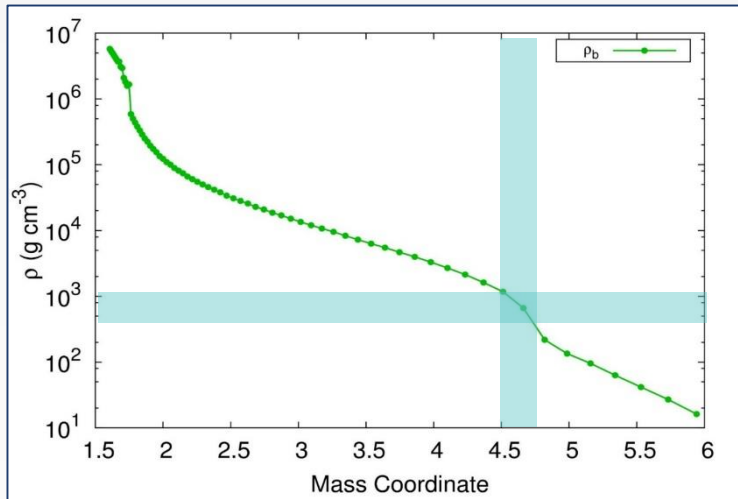


1. Introduction

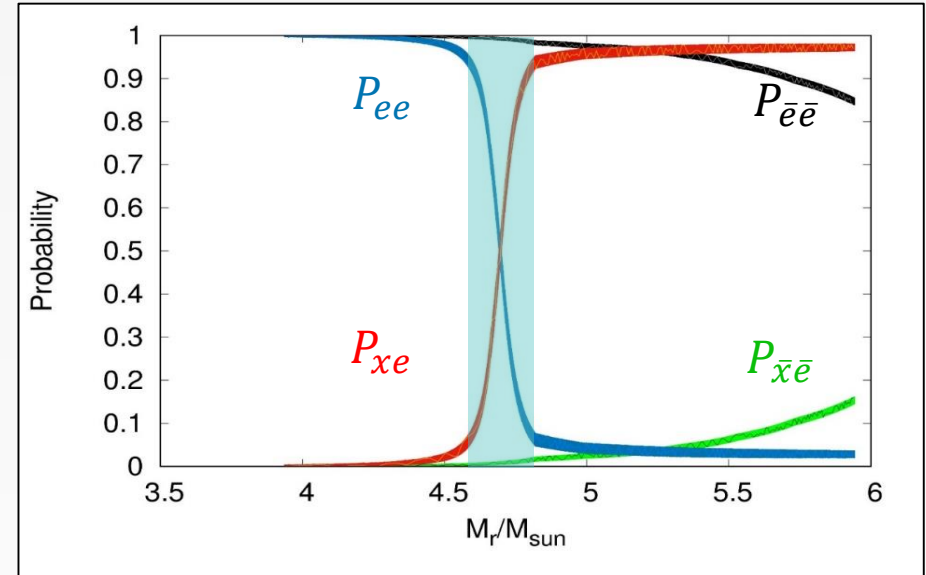


M.K. Cheoun, et al., Phys. Rev. C.85. 065807 (2012)

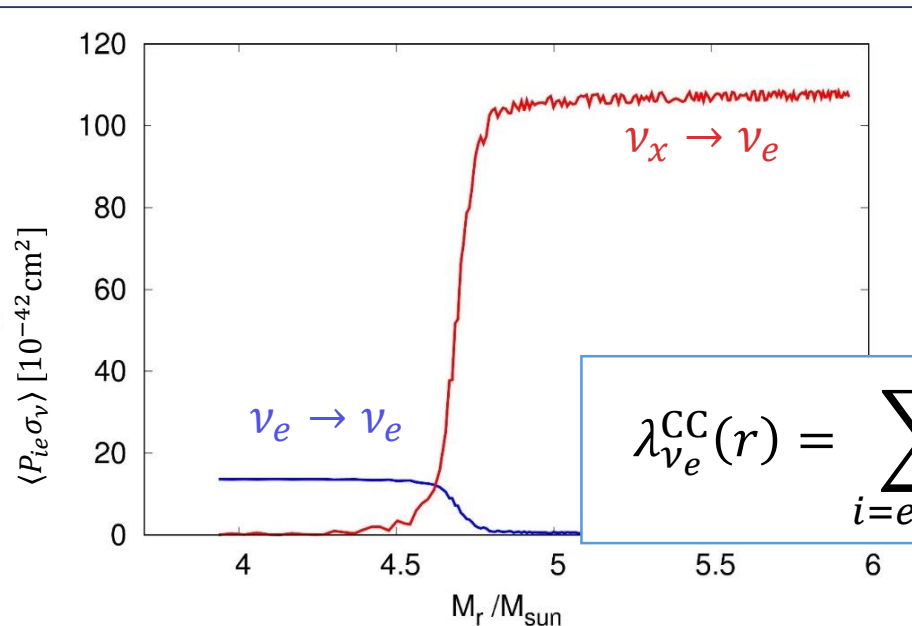
2. Neutrino oscillation



⟨Density profile in SN1987A model⟩



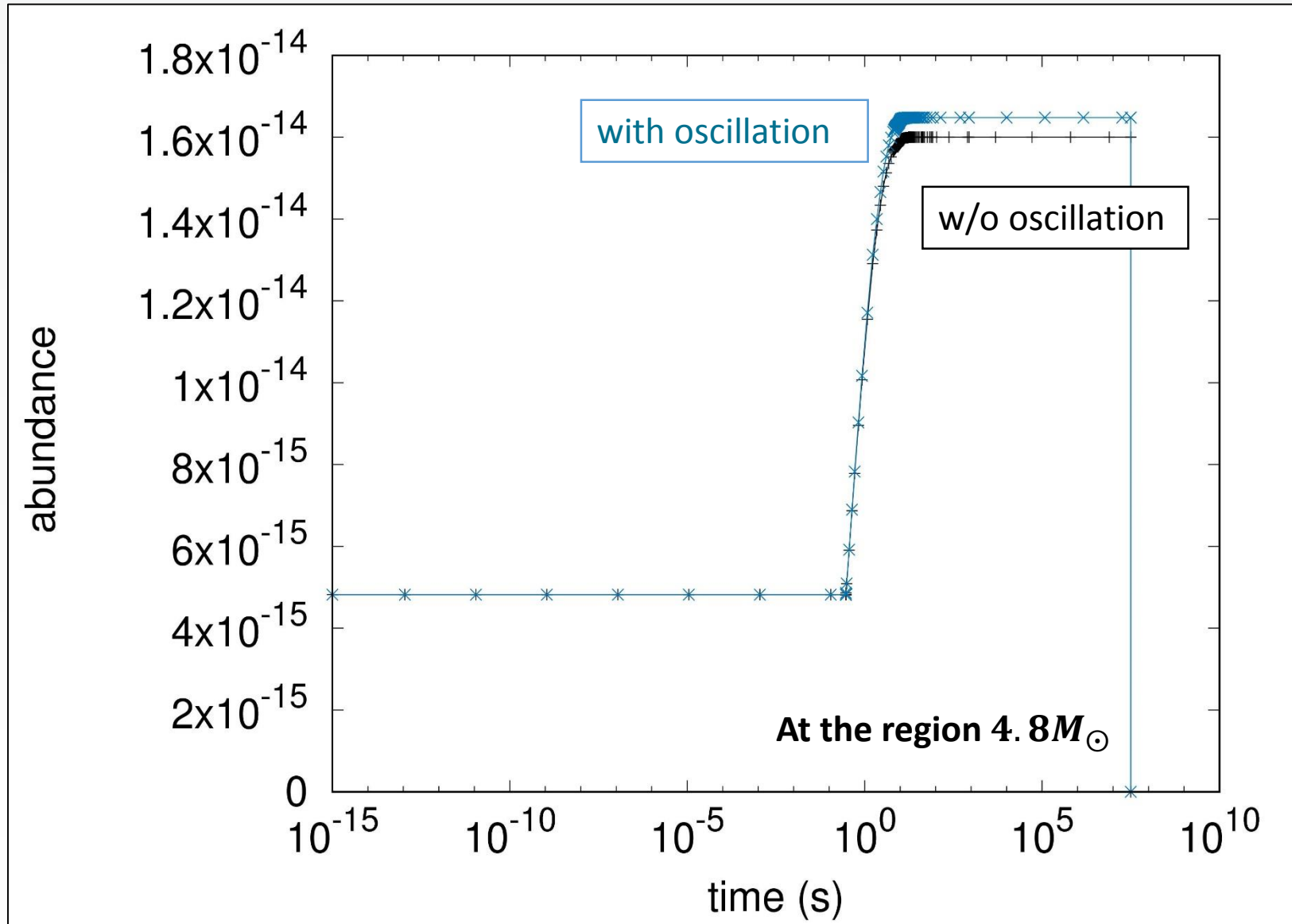
⟨Neutrino flavor changed probabilities⟩



The average cross section of
 ${}^{98}\text{Mo}(\nu_e, e^-){}^{98}\text{Tc}$
 increased about 8 times.

$$\lambda_{\nu_e}^{\text{CC}}(r) = \sum_{i=e,\mu,\tau} \left[\frac{L_{\nu_i}}{4\pi r^2} \frac{F_2(0)}{F_3(0)} \langle P_{ji}\sigma_{\nu_i} \rangle (T_{\nu_i}; r) \right]$$

3. Result of ^{98}Tc



3. Result of ^{98}Tc

