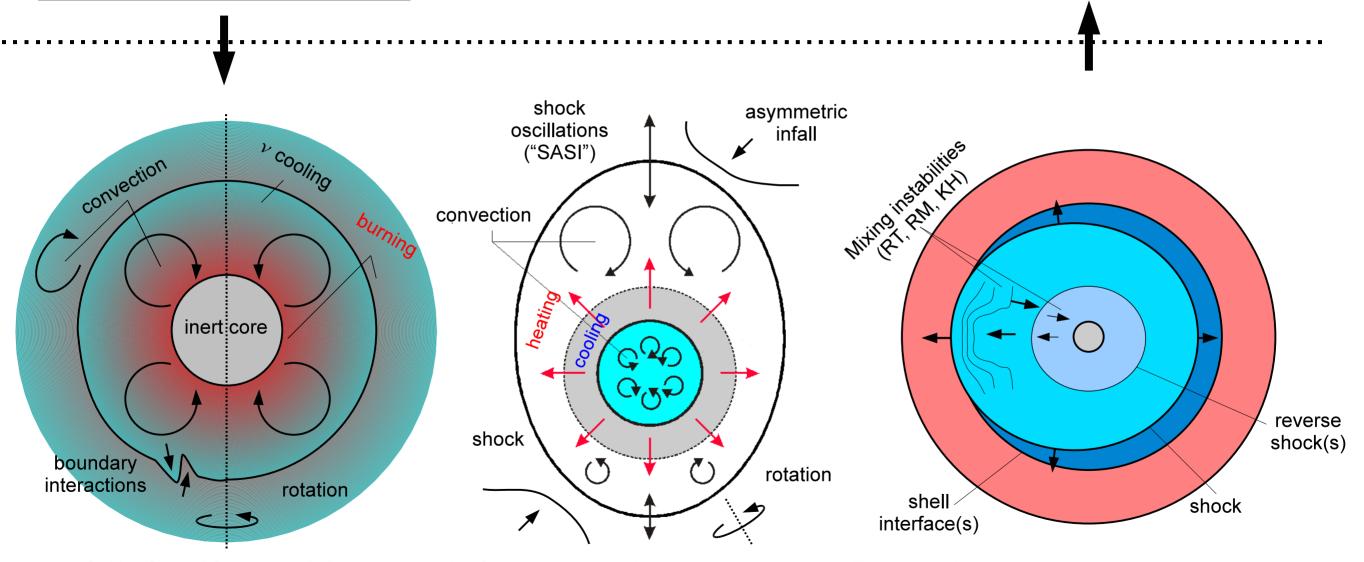
Stellar evolution from the main sequence through H and He core burning to the beginning of C burning:

O(10⁷ years)

Supernova remnant evolution: $\mathcal{O}(10^4-10^5 \text{ years})$



a) C, Ne, O, and Si core and shell burning (years to hours)

b) Core collapse and shock revival (hundreds of milliseconds)

c) Explosion phase up to shock breakout (hours to days)