- 1. Explain why the 12 M_{\odot} star loses mass according to Figure 1.
 - The mass falls sharply when the outer layers of the star become convective.
- 2. Why would stellar cores increase their spin rate as they move into evolved stages? As the star evolves, it fuses heavier and heavier elements. Increased mass results in increases spin rate, according to maths.
- 3. How much (by what factor) does Figure 5 predict that the spin rates of the inner core would increase from H burning to C burning?
- 4. From the same figure, by what factor do gravity waves halt such spinning up?