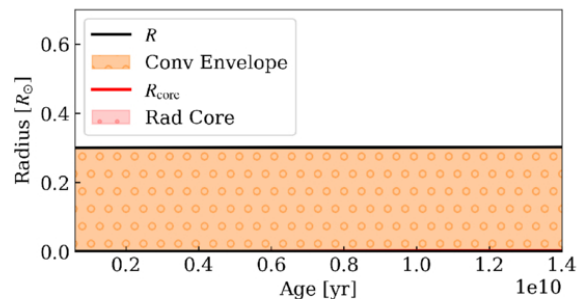


Figure 3. from

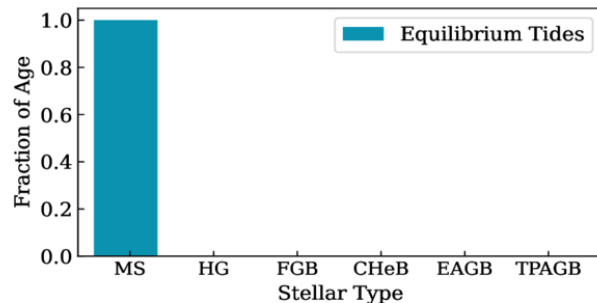
Veome Kapil et al 2026 *Astrophys. J.* 1002 doi:10.3847/1538-4357/ae5e48

<https://dx.doi.org/10.3847/1538-4357/ae5e48>

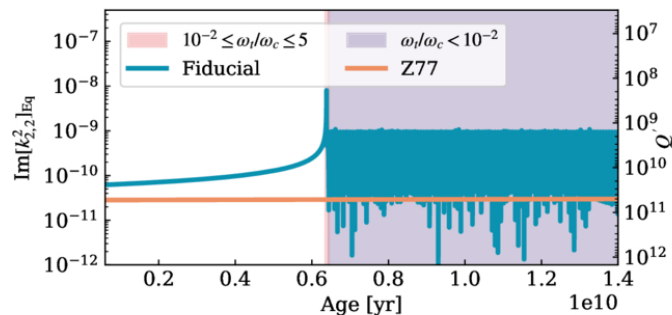
© 2026. The Author(s). Published by the American Astronomical Society.



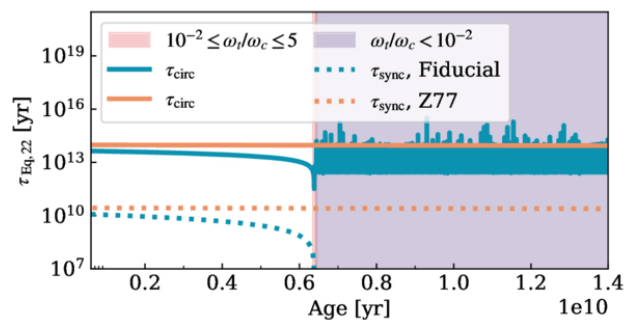
(a) Kippenhahn diagram of the primary star.



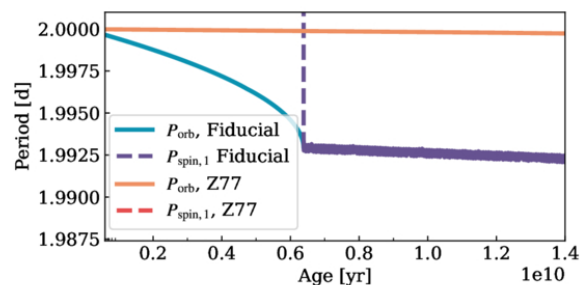
(b) Fraction of the star's age that each tidal mechanism is applicable, per stellar type encountered over the evolution.



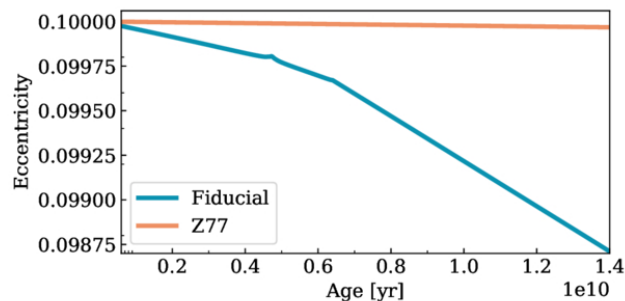
(c) Absolute strength of the $\ell = 2, m = 2, n = 2$ equilibrium tidal Love number (left y-axis) and the tidal quality factor (right y-axis) of the primary star.



(d) Equilibrium tidal timescales for circularization and synchronization for the primary star.



(e) Orbital and primary rotation periods under the fiducial and Z77 models.



(f) Eccentricity evolution of the binary under the fiducial and Z77 models.