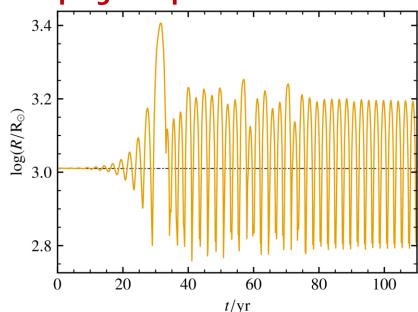
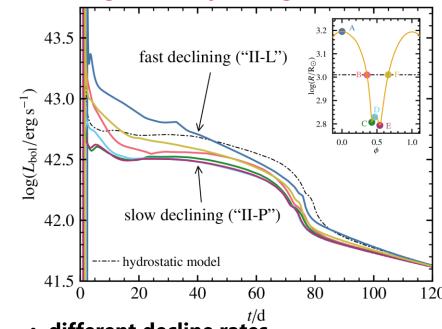
Vincent. A. Bronner, Eva Laplace, Fabian R. N. Schneider, Philipp Podsiadlowski

Red supergiants pulsate ...



- modeling pulsations selfconsistently
- period between 400 and 800 days
- $\Delta \log L$ up to 1.3 dex, $\Delta T_{\rm eff}$ up tp 5000 K

... causing diversity SN light curves



- different decline rates
- features in light curves linked to density structure → driving mechanism



check out this cool movie











