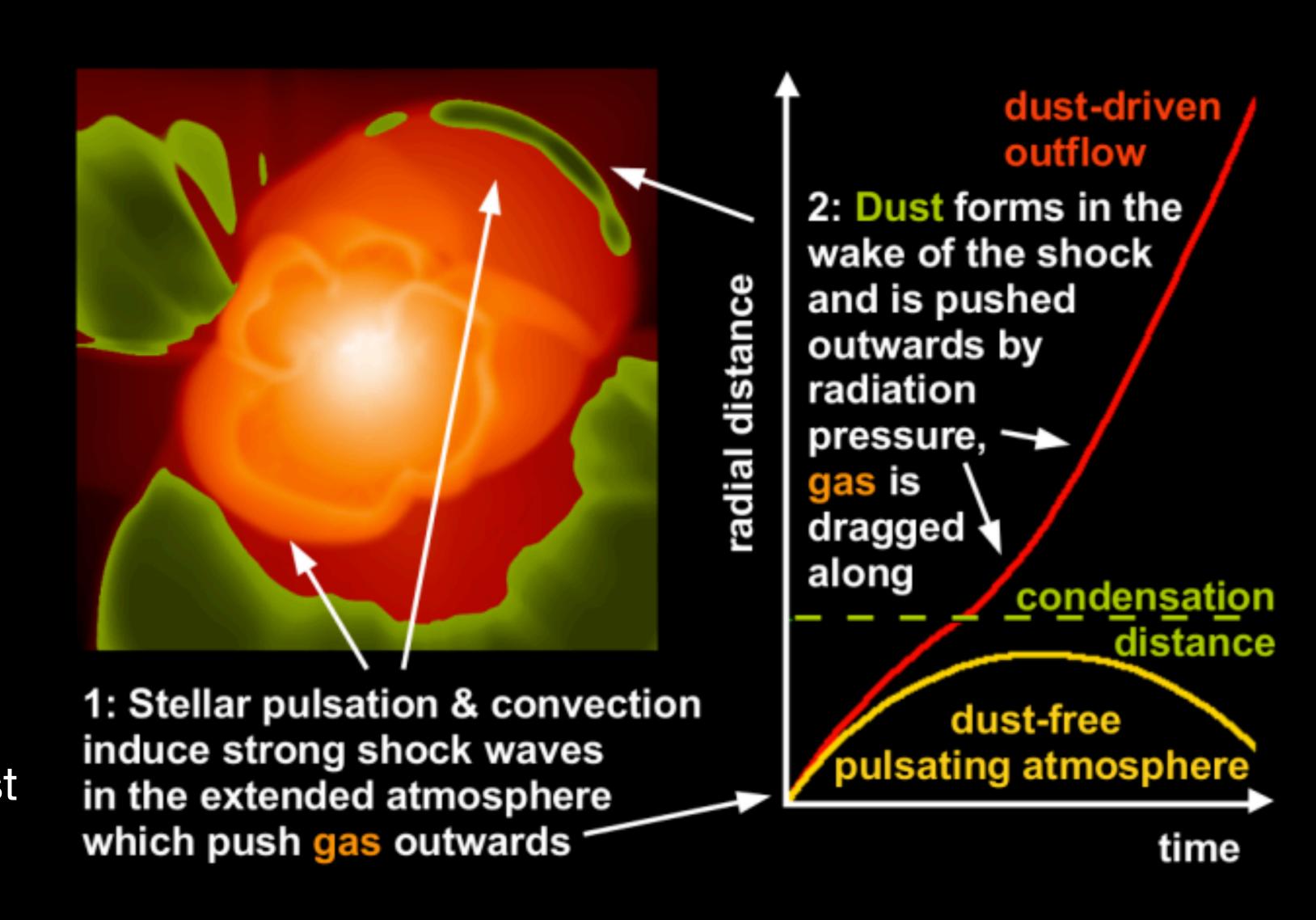
CO5BOLD

- The grains can **grow** by the addition of abundant atoms
- And shrink due to thermal evaporation
- Considering just Fe-free silicates (Höfner & Freytag 2022)
- Grain growth does not describe nucleation (solid seed particles)
- Radiation pressure is the only dust opacity effect taken into account. (simplified versions)



Parametrs for this particular study

Table 1. Basic model parameters and derived quantities. $T_{\mathrm{eff},s_{\mathrm{min}}}$ $R_{\star,s_{\min}}$ P_{puls} model M_{\star} n_x^5 $C_{T \text{fac}}$ $\log g_{s_{\min}}$ $x_{outerbox}$ $t_{\rm avg}$ $x_{\rm innerbox}$ (R_{\odot}) (M_{\odot}) (M_{\star}) (L_{\odot}) (R_{\odot}) (d) (R_{\odot}) (K) (yr) cgs 599^{3} st28gm06n050 510 7049 0.75 2823 1.0 0.1824858 2340 54.61 351 -0.656 7030 679^{3} st28gm06n052 1.0 0.181 6386 0.7757.78 2806 -0.665 545 2640 355 559^{3} st28gm05n033 1.5 0.2986702 0.723454 1581 27.70 304 2993 -0.358 297

 The stellar parameter sets of the 3D models presented here were chosen to fall into two different regimes: according to results from 1D DARWIN simulations, model st28gm06n052 is expected to develop a pronounced dustdriven wind, while the 1D counterpart of model st28gm05n033 fails to produce an outflow