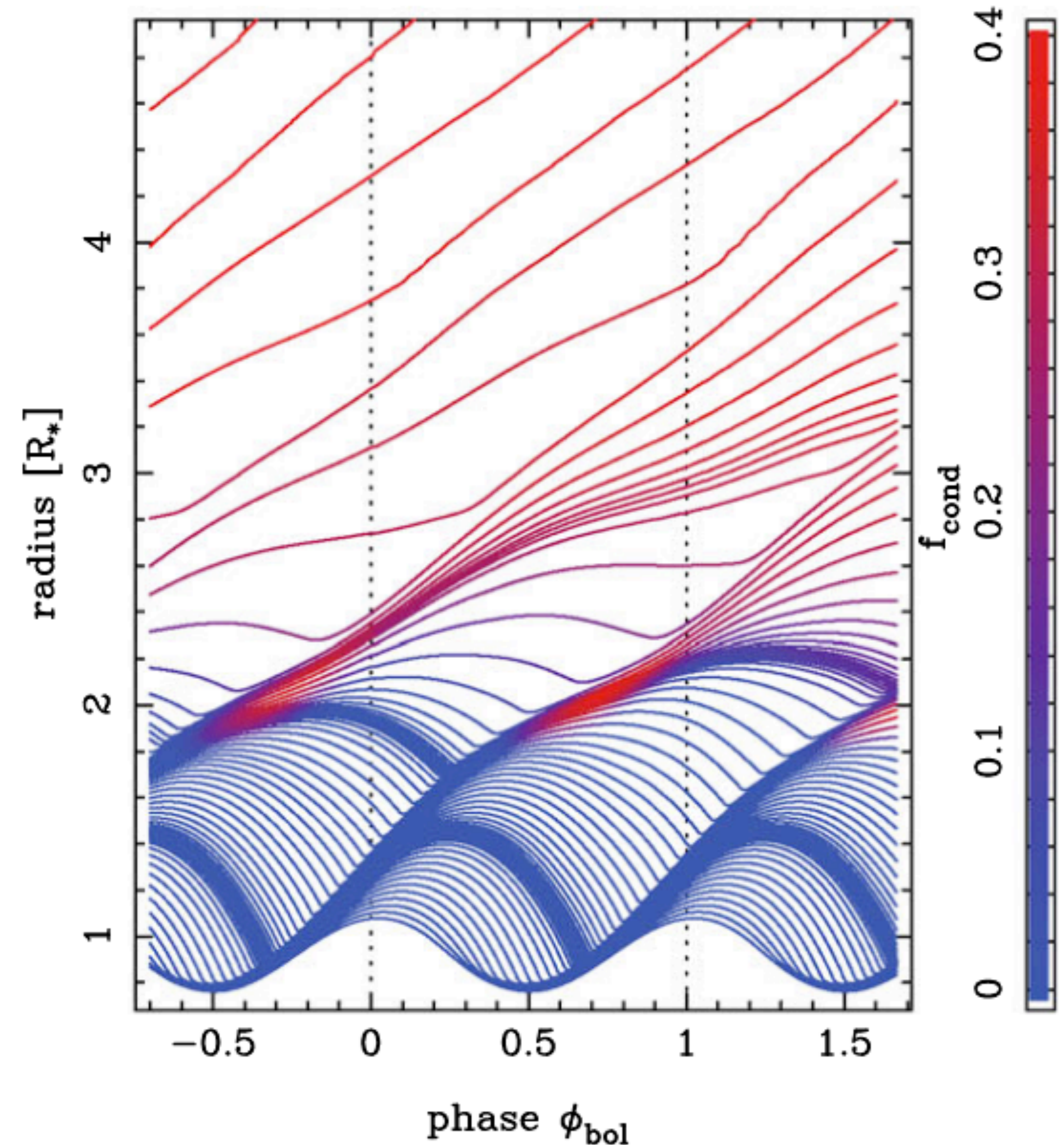


# 1D Simulations

- Usually depends on a “pistol model” that is required as input parameter
- Not properly describes the behavior of stellar interior for AGB since they are highly non-linear
- Not well constrained properties for the dust formation





# 3D Simulations

## CO5BOLD

- Since convection is essentially a 3D process this simulation are need to reproduce the real behavior
- Have been successfully reproduce common properties of the stars (PL relations and are in good agreement with resolved stars)

st28gm06n038: Surface Intensity(3r), time( 1)= 1.513 yr

