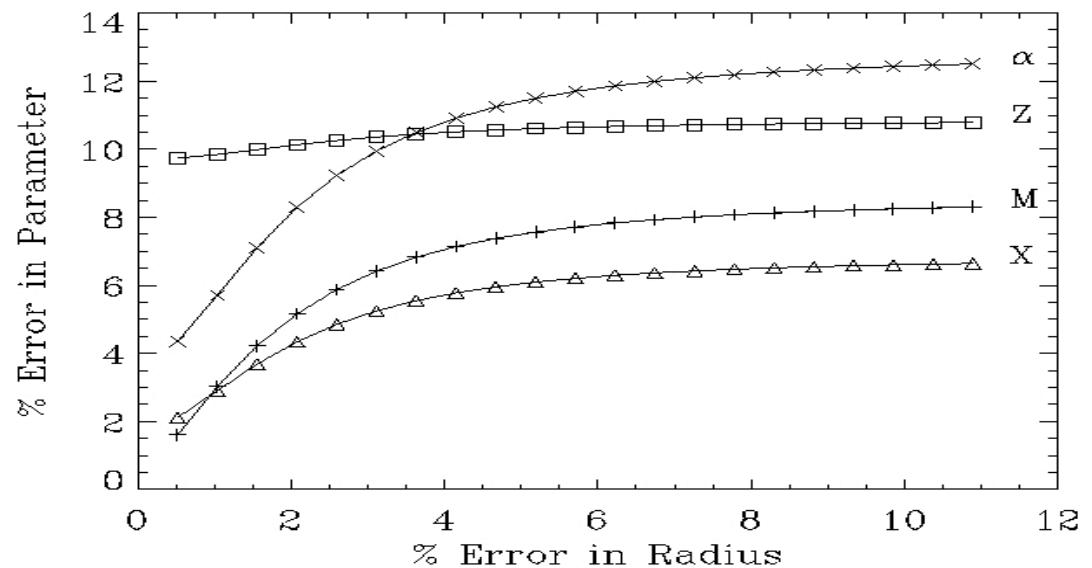
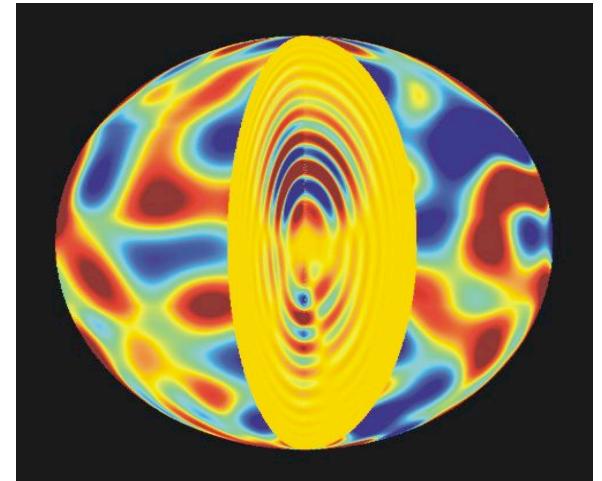


Science Rationale

- Title: Probing stellar structure and evolution models of evolved stars using seismology.
- Measure Diameter of HD2151 (G2IV)
- Measure $\mathbf{R} \Rightarrow$ constrain models (\mathbf{M})
 $(L, T_{\text{eff}})_{Y, M, Z/X} \Rightarrow R = 1.8 \cdot$
- Breakthrough with
VLTI $_{(M)} < 4\%$
because seismic models
depend on R



Target and Calibrator

- Target: HD2151 (G2IV)
 - 00 25; -77 15
 - Distance = 7.5 pc
 - V = 2.8, K = 1.7
 - HRD position error 3%
 - Mass = $1.05 - 1.22 M_{\text{solar}}$
 - $_ = 56.2 \text{ Hz}$
- Calibrator: HD4815 (K5III)
 - 00 48; -74 55
 - V2 = .51
 - V= 5.9, K = 2.03
- Observability
 - observe in zenith, $\sim 1\text{hr}$
 - Aug-Oct

Instrument Set-up

- Amber UT1, UT2, UT4
- Low Resolution (LR-HK)
(1.46-2.54 microns)
- 60 mins (object + calibrator)

