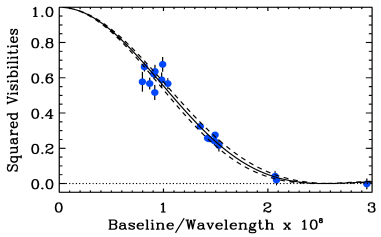
Interferometry and Asteroseismology of FGK stars

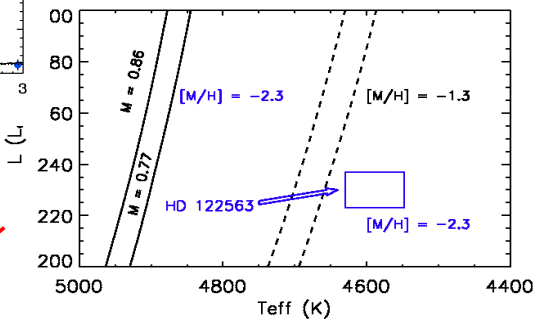
Orlagh Creevey and VEGA/K2/SONG collaborators

1. Metal-poor Pop II stars

Analysis of VEGA(OCA)@CHARA observations



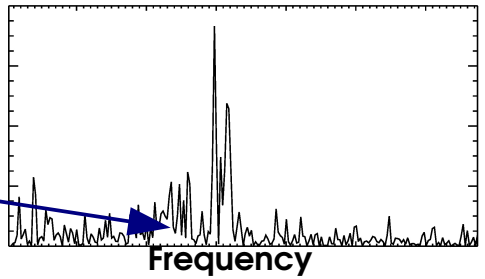
Interpretation with models



Problems with models?
Problems with obs?
Both? Or Other?

ν_{max} not in agreement with predictions ???

Seismology @SONG

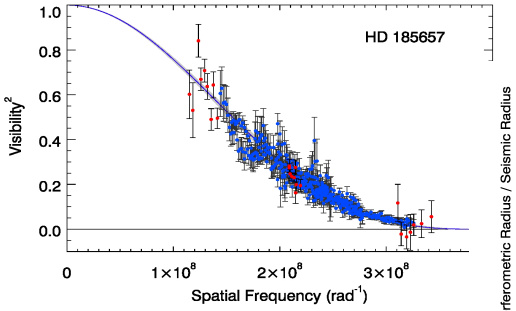


2. Calibrating asteroseismic scaling relations for population studies

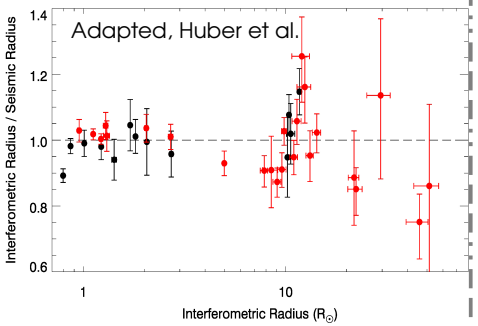
1. **1,000s of giants** known from CoRoT, Kepler, and ...
2. scaling relations to estimate **radius** and mass (->age)
3. **Stellar population** studies -> Our Galaxy

TEST and CALIBRATE seismic scaling relations

Comparison of Pavo/VEGA



Comparison of radii



Our international collaboration.....
Seismic data: 50 bright stars selected with K2
Interfero: Vega/pavo/classic@chara and Pionier@vlti
Distance: Hipparcos + Gaia

Workshop on **Interferometry & Asteroseismology** in **Nice, Oct 4-6**, partially sponsored by PNPS