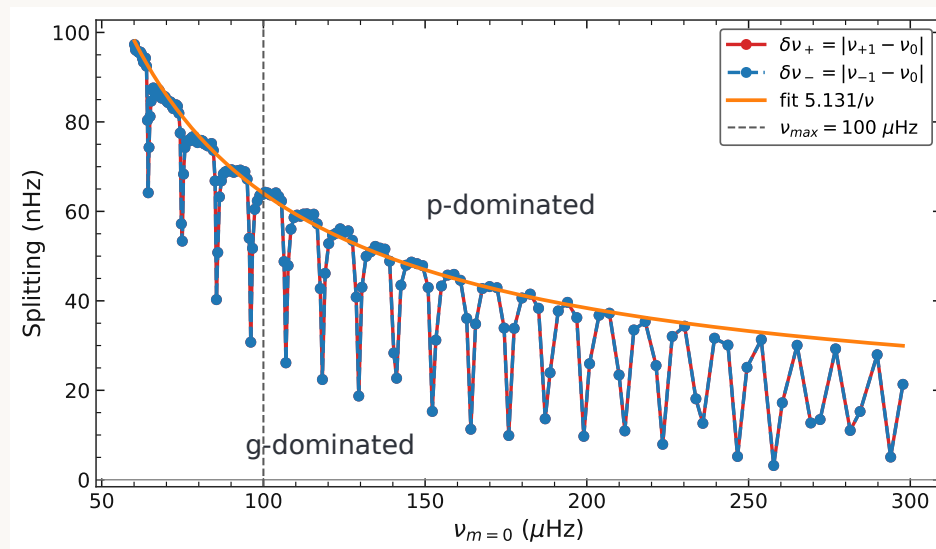
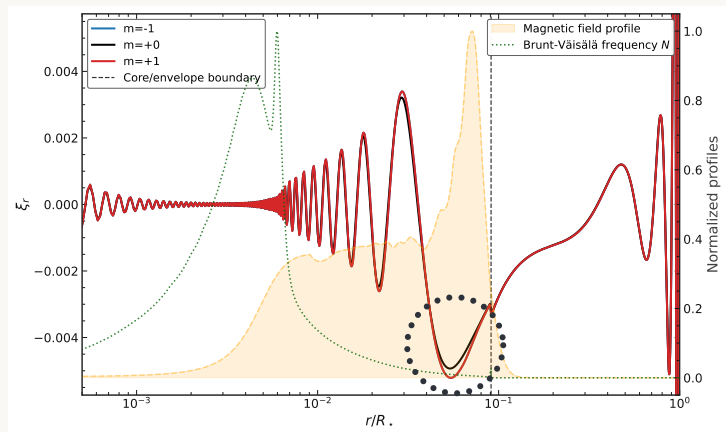


# Probing the internal stellar magnetism with asteroseismology



- **Problem** : internal magnetism and angular momentum transport
- **Result** : Detectable magnetism intensity :  $B_{\text{tor}} > 3\text{MG}$  (4 years Kepler : 8 nHz resolution)
- MAGIC simulations :  $B_{\text{tor}} > 100B_r$ ,  $B_r > 30\text{ kG}$  (Li et al. 2022)  $\rightarrow$  toroidal field could contribute to the splitting

- **Method** : equatorial formalism (toroidal Lorentz force in a non-perturbative way)



- **Perspectives** : Extend the analysis to mixed field  $B_{\text{tor}}/B_{\text{pol}}$