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TOPICS OF RESEARCH

Stellar structure and evolution
Binaries, tidal interactions and deformations
Stellar oscillations and non-adiabatic effects

FORMATION

2022-2026 **PhD in Astrophysics (F.R.S.-FNRS) - University of Liège**
3D modelling of structure and oscillations of close binaries with M.-A. Dupret.

2019-2021 **Master in Astrophysics - University of Geneva**
Characterization of exoplanet-host red giants, orbital evolution and atmosphere evaporation with G. Buldgen and P. Eggenberger.

PUBLICATIONS IN PEER REVIEWED JOURNALS

- **Fellay, L.**; Buldgen, G.; Eggenberger, P.; Khan, S.; Salmon, S. J. A. J.; Miglio, A.; Montalbán, J. (2021). *Asteroseismology of evolved stars to constrain internal angular momentum transport. IV. Internal rotation of Kepler-56 from an MCMC analysis of rotational splittings*, Astronomy & Astrophysics, 654, A133.
- **Fellay, L.**; Dupret, M.-A. (2023). *MoBiDICT: New 3D static models of close synchronized binaries in hydrostatic equilibrium*, Astronomy & Astrophysics, 676, A22.
- **Fellay, L.**; Pezzotti, C.; Buldgen, G.; Eggenberger, P.; Bolmont, E. (2023). *Constraints on planetary tidal dissipation from a detailed study of Kepler-91b*, Astronomy & Astrophysics, 669, A2.
- **Fellay, L.**; Dupret, M.-A.; Rosu, S. (2024). *Underestimation of the tidal force and apsidal motion in close binary systems by the perturbative approach: Comparisons with non-perturbative models*, Astronomy & Astrophysics, 683, A210.
- **Fellay, L.** ; Dupret, M.-A.(2025). *Direct non-adiabatic modelling of gravito-inertial and Rossby tidally excited oscillations with the traditional approximation*, Astronomy & Astrophysics, 694, A51.
- **Fellay, L.** ; Dupret, M.-A. ; Kolaczek-Szymanski, P. A. (2026). *Resonance locking and tidal evolution in rotating γ -Doradus binaries*, Astronomy & Astrophysics, accepted.
- Buldgen, G. ; **Fellay, L.** ; Bétrisey, J. ; Deheuvels, S. ; Farnir, M. ; Farrell, E. (2024). *Markov chain Monte Carlo inversions of the internal rotation of Kepler subgiants*, Astronomy & Astrophysics, 689, A307.