

Stellar modelling and asteroseismology

Supervisor: Andrea Miglio

Project description and activity plan:

The Research Fellow will work on developing, testing, and applying novel procedures to determine precise and accurate properties of tens of thousands of stars by fully utilising the potential of individual solar-like pulsation modes detected by space-borne photometric missions (CoRoT, *Kepler*/K2, and TESS). A crucial task for the appointee will be a critical appraisal of how numerical and systematic uncertainties in stellar model predictions impact on the inferred stellar properties (in particular ages).

The appointee will work closely with Andrea Miglio and other researchers involved in the ERC-funded “asterochronometry” project, with members of the Dipartimento di Fisica e Astronomia, and as part of other international collaborations where they will have the opportunity to develop prominent, leading roles.