

## **Chemodynamical evolution of the Galaxy at high temporal resolution**

*Supervisor:* Andrea Miglio

*Project description and activity plan:*

The Research Fellow will work on developing and exploiting theoretical predictions of chemo-dynamical evolution of Galaxies and translating them into expected distributions of observable properties of stars. By comparing model predictions with observed properties of populations of stars in the regions explored by *Kepler*, K2, CoRoT, and TESS, the research fellow will reconstruct the chemical evolution of the Galactic discs with unprecedented temporal resolution, and quantify the role of secular processes that have shaped the present-day thin and thick discs.

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.