

## Studying the nonlinearities in the delta Scuti Stars through Asteroseismology

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Asteroseismology is the study of the interior of stars through their pulsations and oscillations, much like Seismology studies the interior of the Earth. By delving into stellar pulsations, researchers can obtain relevant physical information about the stars' evolution, chemical composition, and internal processes such as convection or magnetic fields.

Delta Scuti stars are pulsating stars with masses between 1.5-2.5 solar masses which exhibit the so-called linear and non-linear oscillations. Their power spectrum is very complex, implying the interaction of several physics processes within them.

The aim of this seminar is to give a brief introduction to the field of Asteroseismology and to present the main characteristics of the Delta Scuti Stars, as well as to detail the importance of the non-linear interactions within them.

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**Clasificación de la sesión :** Morning Session