



David Martínez Gómez

Solar Physics

Advanced Fellow Severo Ochoa

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I got my Ph.D. degree in Physics by the University of the Balearic Islands (UIB) in 2018, with a thesis about the properties and evolution of high-frequency waves and instabilities in the solar atmosphere. Then, I stayed at the UIB during one year working as a support researcher for the Institute of Applied Computing with Community Code. In February 2019, I joined the Solar Physics Group of the IAC as a postdoc of the PI2FA project, and in February 2021 I started my current position as a Severo Ochoa Postdoctoral Researcher. My main field of research is the physics of partially ionized plasmas, particularly of those present in the solar atmosphere. Using multi-fluid models, I perform analytical and numerical investigations about the effect that collisions between the different species in a plasma have on wave propagation, plasma heating and instabilities. I am also interested on the research of other non-ideal mechanisms that affect the dynamics of solar plasmas and on the study of coronal rain.