

DIOGO CAPELO

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ACADEMIC BACKGROUND

M.Sc. in Engineering Physics, Instituto Superior Técnico, Universidade de Lisboa

B.Sc. in Engineering Physics, Instituto Superior Técnico, Universidade de Lisboa

RESEARCH EXPERIENCE

FCT – Individual PhD Fellowship

November 2024 – Present

"Impact of Dark Matter Models on Stellar Evolution"

SELECTED PUBLICATIONS

Neutrinos and Asteroseismology of Stars Over the Helium Flash

The Astrophysical Journal, Volume 953, Issue 2, id. 165, 13 pp.

The impact of composition choices on solar evolution: age, helio- and asteroseismology, and neutrinos

Monthly Notices of the Royal Astronomical Society, Volume 498, Issue 2, pp. 1992-2000

Cosmological implications of bumblebee vector models

Physical Review D, Volume 91, Issue 10, id. 104007

CONFERENCES & TALKS

International Conference on Dark Matter and Stars 2025

Contributed talk: "Dark Matter Transport and Stellar Evolution" | Kingston, Canada | July 2025

Porto Summer School on Asteroseismology: From Pixels to Stellar Ages

Participant | Vila do Conde, Portugal | July 2024

MESA@Konkoly Summer School

Participant | Budapest, Hungary | August 2023

RESEARCH INTERESTS

Stellar Structure and Evolution, Stellar Modelling, Asteroseismology, Fundamental Physics