

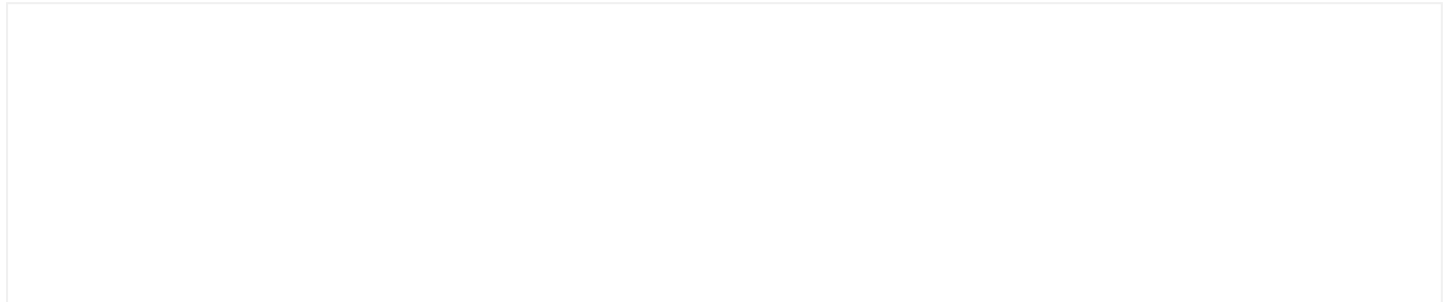
## Certificate

The Instituto Superior Técnico of the Universidade de Lisboa certifies that the student ist165685 **HUGO PEREIRA HUGON**, holder of the Portuguese Citizen Card No 13728653 and of PORTUGUESE nationality, obtained the degree of **Doutor em Engenharia Física Tecnológica** (Technological Physics Engineering), on 30 June 2020, with the presentation of the thesis entitled

**Beyond standard geometrical optics: Paraxial WKB treatment of lower-hybrid wave propagation in tokamaks,**

to which the legally constituted jury awarded the final qualification of **Pass with Distinction**.

The Certificate of Registration No 3682/IST/D/2025 was requested.



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