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Research Topics

Plasma Physics
Magnetic Confinement
Tokamak Edge (SOL)
General Relativity
Black Holes
General Relativistic
MHD

Languages

Portuguese ★★★★★
English ★★★★☆
French ★★☆☆☆
Matlab/Mathematica
Latex/Fortran
HTML/CSS/PHP/MySQL

Rogério Jorge 12/04/1992

Experience

01/15 - Now **PhD Student**
Instituto de Plasmas e Fusão Nuclear (IPFN), APPLAuSE - IST, Lisboa Portugal
Swiss Plasma Center (SPC) - EPFL, Lausanne Switzerland
Plasma physics theory and modelling. Development of a novel method to study edge plasmas of magnetic confinement nuclear fusion devices (Tokamak) based in a drift-reduced approach with full kinetic Coulomb collisions.

08/14 - Now **Startup Co-founder & Web Developer** Portal da Sabedoria
Online platform to match student and tutors according to their own schedule.
NovaBase's Gameshifters 2014 winners: start-up 24h contest, 4000€ prize
University of Lisbon award: 2014/2015, 5000€ prize
portaldasabedoria.pt

Education

2010 - 2014 **Integrated Master's in Engineering Physics (18/20)** Técnico Lisboa (IST), Portugal
Main subjects: Nuclear Fusion, Kinetic Theory, Advanced Topics in Particle Physics, Astrophysics and Particle Physics, Topics in General Relativity.
Thesis work during Erasmus at EPFL: *"Simulation of Plasma Blobs in Realistic Tokamak Geometry"* .
Advisors: Prof. Nuno Loureiro, Prof. Paolo Ricci.

Conferences

09/2015 **European Fusion Theory Conference** Poster Presentation
ISTTOK Scrape-off Layer Turbulent Regimes

09/2014 **International Congress on Plasma Physics** Poster Presentation
Simulation of Plasma Blobs in Realistic Tokamak Geometry

Main Publications

R. Jorge, E. Oliveira, J. Rocha
Greybody factors for rotating black holes in higher dimensions
Classical and Quantum Gravity, Volume 32, Number 6, February 2015
G. Cardoso, R. Jorge, S. Nampuri
Indefinite theta functions and black hole partition functions
Journal of High Energy Physics, 19, February 2014
R. Jorge, P. Ricci, F. Halpern, N. Loureiro, C. Silva
Plasma Turbulence in the Scrape-off Layer of the ISTTOK Tokamak
arXiv preprint, 1606.09538, July 2016

Other Activities

09/02 - 06/10 **Complementary Course on Classical Guitar (18/20)**
Conservatório de Música David de Sousa, Figueira da Foz, Portugal
Main subjects: Acoustics, Composition, Music Theory, Music History