Andrei Marin

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EDUCATION

M.S. in Theoretical and Computational Physics University of Bucharest, Faculty of Physics

2024-

B.S. in Physics University of Bucharest, Faculty of Physics

2021-2024

Three years average grade: 10/10;

Bachelor thesis on "Elements of criticality and optimization in atmospheric convection"

Exchange student University of Glasgow, School of Physics and Astronomy

Sep 2023 - Dec 2023

EXPERIENCE

Horia Hulubei National Institute of Physics and Nuclear Engineering | Department of Theoretical Physics

Research Assistant: Nov 2024 -

Physics & Chemistry Assistant: Jul 2024 - Sep 2024

· Working on integrable systems and nonlinear wave equations

Centre de physique des particules de Marseille | Intern, Department of Cosmology

Aug 2022 - Sep 2022

Worked in the development of code for cosmological measurements based on Baryonic Acoustic Oscillations

PARTICIPATION IN INTERNATIONAL EVENTS

Schools

• CERN - SEENET-MTP - ICTP School on Field theory and applications in HEP, 9-16 June 2024, Thessaloniki, Greece

LANGUAGES

English Professional knowledge - CEFR C1

Romanian Native speaker

French Good knowledge - CEFR B2

SCIENTIFIC ACTIVITY

Publications

- Why the turbulent buoyant plumes evolve to round cross sections? A 'Constructal' view, A. Marin, C. V. Vraciu, International Communications in Heat and Mass Transfer, Vol. 146, Article No. 106947 (2023)
- Polarization of Charged Spherical Dielectric Core-Shell, A. Marin, O. lanc, T. O. Cheche, Romanian Journal of Physics, Vol. 68, Article No. 104 (2023)

Presentations

- Constructal Law Conference, Bucharest, 10-11 October 2024, **A. Marin**, C. V. Vraciu, *The evolution of the turbulent buoyant plumes towards round cross sections: a constructal view*
- European Geosciences Union General Assembly, Vienna, 23-28 April 2023, A. Marin, C. V. Vraciu, On the organization
 of passive shallow cumulus clouds
- American Geophysical Union Fall Meeting, Chicago (online participation), 12-16 December 2022, A. Marin, C. V. Vraciu,
 An EDMF parameterization for the dry boundary layer with an energy-consistent plume model

EXTRACURRICULAR ACTIVITIES

Trans-Carpathian Student Circle on Mathematical Physics | website

2024 -

- Group coordinator for Romania
- Working on a project on Integrability in discrete dynamical systems (Singularity approach)