



**Ovidiu-Vasile
Nițescu**

DATE OF BIRTH:

07/09/1994

CONTACT

Nationality: Romanian

Gender: Male



Village Albeștii
Ungureni(Commune Albeștii
de Argeș), County Argeș, no.
226, null
117006 Curtea de Argeș,
Romania



ovidiu.nitescu@nipne.ro



(+40) 0774676937

WORK EXPERIENCE

01/04/2016 – CURRENT – Magurele, Romania

Assistant Researcher

Horia Hulubei National Institute of Physics and Nuclear Engineering
Theoretical Physics
Măgurele, Romania

2018 – CURRENT – Magurele, Romania

Assistant Researcher

UNESCO cat. II International Centre for Advanced Training and
Research in physics (CIFRA)

The major part of my research activity is associated with the study of
beta decay, double beta decay, neutrino physics, rare nuclear processes,
and nuclear structure.

EDUCATION AND TRAINING

01/07/2020 – CURRENT – Fakulta matematiky, fyziky a informatiky Univerzity
Komenského Mlynská dolina F1, Bratislava , Slovakia

PhD Student

Faculty of Mathematics, Physics and Informatics, Comenius
University in Bratislava

01/10/2019 – CURRENT – Măgurele, Romania

PhD Student

Faculty of Physics, University of Bucharest
Theoretical and Computational Physics

01/10/2013 – 30/06/2017 – Măgurele, Romania

Bachelor Degree

Faculty of Physics, University of Bucharest
Quantum Mechanics, Electrodynamics, Nuclear Physics, Optics, Atomic
Physics, Solid State Physics, Relativity Theory

01/10/2017 – 30/06/2019 – Măgurele, Romania

Master Degree

Faculty of Physics, University of Bucharest
Theoretical and Computational Physics

LANGUAGE SKILLS

MOTHER TONGUE(S): Romanian

OTHER LANGUAGE(S):

English

Listening
B2

Reading
B2

**Spoken
production**
B2

**Spoken
interaction**
B2

Writing
B2

DIGITAL SKILLS

Microsoft Office / Microsoft Word / Microsoft Excel / Microsoft Powerpoint / Mathematica (basic) / SciDraw / ROOTcern / C++ / Latex Software

PUBLICATIONS

● Publications

- **Nițescu Ovidiu**, Ștefan Ghinescu, Mirea Mihail and Sabin Stoica, *Probing Lorentz violation in $2\nu\beta\beta$ using single electron spectra and angular correlations*, Physical Review D, 103, L031701 (2021).
- **Nițescu Ovidiu**, Ștefan Ghinescu and Sabin Stoica, *Lorentz violation effects in $2\nu\beta\beta$ decay*, Journal of Physics G: Nuclear and Particle Physics 47 055112 (2020).
- Nabi, J.-U.; Ishfaq, M.; **Nițescu, O.**; Mirea, M.; Stoica, S. β^- -Decay Half-Lives of Even-Even Nuclei Using the Recently Introduced Phase Space Recipe. *Universe* **2020**, 6, 5 (2020).
- Ștefan Ghinescu, **Nițescu Ovidiu** and Sabin Stoica, *Investigation of Lorentz symmetry violation in double beta decay*, AIP Conference Proceedings **2165**, 020025 (2019)
- S. Stoica and **O. Nițescu**, *Neutrino properties deduced from the double beta decay study*, Proceeding of Science, Volume 340 , The 39th International Conference on High Energy Physics
- **Ovidiu Nițescu**, *General approach of electrostatic corrections in nuclear β decay*, July 2019, DOI:10.13140RG.2.2.27436.00644, Thesis for: Master's Degree, Scientific Supervisors: Assoc. Prof. dr. Iulia Ghiu, Prof. dr. Sabin Stoica, Prof. dr. Mihail Mirea
- Mavra Ishfaq, Jameel-Un Nabi, **Ovidiu Nițescu**, Mihail Mirea, and Sabin Stoica, *Study of the Effect of Newly Calculated Phase Space Factor on β -Decay Half-Lives*, Advances in High Energy Physics Volume 2019, Article ID 5783618, 16 pages
- Sabin Stoica, Mihail Mirea, **Ovidiu Nițescu**, Jameel-Un Nabi and Mavra Ishfaq, *New Phase Space Calculations for β -Decay Half-Lives*, Advances in High Energy Physics ,Volume 2016, Article ID 8729893, 8 pages Published: October 2016
- **Ovidiu Nițescu**, Filipoiu Ciprian, *Culegere de probleme rezolvate C++ + clasa IX (Solved problems for C++)*, ISBN:978-606-577-058-4

CONFERENCES AND SEMINARS

Conferences

- **Invited Speaker: Nițescu Ovidiu**, *Study of the effect of newly calculated phase space factor on β -decay half-lives*, 5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Amasya, Turkey, 2-5 May 2019
- **Nițescu Ovidiu**, *A new method for computing the phase space factors in allowed nuclear β transitions*, Fundamental Symmetries and Neutrinos, Seattle, USA, 9-27 July 2018
- **Nițescu Ovidiu**, *New phase space calculations for β^+ and EC decay modes*, New trends in High-Energy Physics, Budva, Montenegro, October 2016
- **Nițescu Ovidiu**, *New calculations for phase space factors for β^+/β^- decay*, Carpathian Summer School of Physics, Sinaia, Romania, June 2016

HONOURS AND AWARDS

Honours and awards

- **Șerban Țițeica award** for remarkable scientific contributions of young researchers in Theoretical Physics 2017
- **1st award** in National Physics Contest *Dragomir Hurmuzescu* 2017
- **mention** in National Physics Contest *Dragomir Hurmuzescu* 2016
- **3rd award** in National Physics Contest *Dragomir Hurmuzescu* 2015

COURSES

Courses

- Precise beta decay calculations for searches for new physics, ECT*workshop, 8-12 April 2019
- TALENT @ ECT*Training in Advanced Low Energy Nuclear Theory: Fundamental Symmetries and Neutrinos, Seattle, USA, 9-27 July 2018
- VII Pontecorvo Neutrino Physics School, Prague, Czech Republic, 20 August - 1 September 2017
- TALENT @ ECT*Training in Advanced Low Energy Nuclear Theory: Theory for Exploring Nuclear Structure Experiments, Trento, Italy, 3 - 21 July 2017