

Horia Pașca

Curriculum Vitae

Informații personale

Funcția actuala	Lector Universitar, Facultatea de Fizică, Universitatea "Babeș-Bolyai", Cluj-Napoca, România
Afilieră	Facultatea de Fizică, Universitatea "Babeș-Bolyai", Cluj-Napoca, România
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Naționalitatea	Română
Data Nașterii	29 August 1988
Sex	Masculin

Experiență profesională

Data	26 Febrarie 2018 – Prezent
Pozitia actuala	Lector Universitar
Numele angajatorului	Universitatea "Babeș-Bolyai", Cluj-Napoca 400084, România
Data	22 Noiembrie 2011 – 22 Noiembrie 2018
Pozitia ocupata	Cercetător
Numele angajatorului	Joint Institute for Nuclear Research – Laboratorul de Fizică Teoretică N.N.Bogoliubov, Dubna, Federația Rusă

Educație și formare

Studii Universitare	2007 – 2011 Facultatea de Fizică, Universitatea "Babeș-Bolyai", Cluj-Napoca, jud. Cluj, România, Nivel Licență 2011-2013 Facultatea de Fizică, Universitatea "Babeș-Bolyai", Cluj-Napoca, jud. Cluj, România, Diploma de Master 2013- 2017, Institutul de Studii Doctorale, Universitatea "Babeș-Bolyai", Cluj-Napoca, jud. Cluj, România, Doctor în Fizică
Cea mai mare calificare obținută	Doctor în Fizică (titlul lucrării: "Cluster approach to fission", data susținerii publice 28.04.2017), titlul obținut cu calificativul Summa Cum Laude

Competențe personale

Limba materna	Limba Română
Limbi străine	Limba Engleză (înțelegere, Vorbire, Scriere - C1), Limba Germană și Rusă (A2)
Competențe dobândite la locul de muncă	Scrierea de proiecte de cercetare, a rapoartelor de cercetare precum și a cererilor de finanțare necesare cercetării științifice. Totodată, scrierea și redactarea articolelor științifice.
Competențe IT	Mathematica (excellent), C++, Python, Java(basic level), HTML, CSS (good), Origin (excellent), Maple, SRIM.

Data
06 Martie 2022

Semnătura



Articole publicate

"Simultaneous description of charge, mass, total kinetic energy, and neutron multiplicity distributions in fission of Th and U isotopes", Author(s): Pasca, H (Pasca, H.); Andreev, AV (Andreev, A., V); Adamian, GG (Adamian, G. G.); Antonenko, NV (Antonenko, N., V) PHYSICAL REVIEW C Volume: 104 Issue: 1 Article Number: 014604 DOI: 10.1103/PhysRevC.104.014604 Published: JUL 6 2021

Examination of coexistence of symmetric mass and asymmetric charge distributions of fission fragments, Pasca, H; Andreev, AV, Adamian, GG, Antonenko, NV, Source: PHYSICAL REVIEW C 101, 064604 DOI: 10.1103/PhysRevC.101.064604 Published: JUN 3 2020

"Change of the shape of mass and charge distributions in fission of Cf isotopes with excitation energy", H. Pașca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, Phys. Rev. C 99, 064611 (2019).

"Influence of the entrance channel on spins of complex fragments in binary reactions", Pașca H., Kalandarov S.A., Adamian G.G., Antonenko N.V., Nuclear Physics A 980, DOI: 10.1016/j.nuclphysa.2018.10.060, (2018);

"Charge/mass yields in the fission of highly excited heavy actinides", Pașca H., Andreev A.V., Adamian G.G., Antonenko N.V., EPJ Web of Conferences, 194, 10.1051/epjconf/201819406004 (2018);

"Toward an understanding of the anomaly in charge yield of Mo and Sn fragments in the fission reaction U 238 (n, f)", H. Pașca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, D. Lacroix, Phys. Rev. C 98, 014624 (2018);

"Suggestion for examination of a role of multi-chance fission", H. Pașca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, Eur. Phys. J. A 54: 104 (2018);

"Induced fission modes of Fermium and Nobelium isotopes", H. Pașca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, Nuclear Physics, Section A, Volume 977, p. 1-13 (2018);

"Charge distributions of fission fragments of low- and high-energy fission of Fm, No, and Rf isotopes", H. Pașca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, Phys. Rev. C 97, 034621 (2018);

"Role of the excitation energy of the compound nucleus in binary decay processes", H. Pașca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, EPJ Web Conf. Volume 169 (2018);

"Influence of the entrance channel on spins of complex fragments in binary reactions", Pașca, H.; Kalandarov, Sh. A.; Adamian, G. G.; Antonenko, N. V., Nuclear Physics A, Volume 980, p. 143-155. (2018)

"Spins of complex fragments in binary reactions within a dinuclear system model", H. Pașca, Sh. Kalandarov, G.G. Adamian, N.V. Antonenko, Phys. Rev. C 96 044611, DOI: 10.1103/PhysRevC.96.044611 (2017);

Pasca Horia, "Charge/mass yields in the fission of highly excited heavy actinides", January 2018, The European Physical Journal Conferences 194:06004 DOI: 10.1051/epjconf/201819406004

Pasca, Horia, "Role of the excitation energy of the compound nucleus in binary decay processes", January 2018 The European Physical Journal Conferences 169:00015, DOI: 10.1051/epjconf/201816900015

"Transitions between symmetric and asymmetric modes in the region of heavy actinides", Horia Pasca, A. Andreev, G. G. Adamian, N. V. Antonenko, Nuclear Physics A 969, DOI: 10.1016/j.nuclphysa.2017.10.001 (2017)

"Physical origin of the transition from symmetric to asymmetric fission fragment charge distribution", H. Pașca, A.V. Andreev, G.G. Adamian, and N.V. Antonenko, AIP Conference Proceedings 1852, 080007 (2017); doi: 10.1063/1.4984881

"Physical Origin of the Transition from Symmetric to Asymmetric Fission Fragment Charge Distribution", Horia Pasca, A. Andreev, G. G. Adamian, N. V. Antonenko, Acta Physica Polonica Series B 48(3):431, DOI: 10.5506/APhysPolB.48.431 (2017)

- "Physical origin of the transition from symmetric to asymmetric fission fragment charge distribution", H. Paşca, A.V. Andreev, G.G. Adamian, and N.V. Antonenko, AIP Conference Proceedings 1852, 080007 (2017); doi: 10.1063/1.4984881
- "Physical Origin of the Transition from Symmetric to Asymmetric Fission Fragment Charge Distribution", Horia Pasca, A. Andreev, G. G. Adamian, N. V. Antonenko, Acta Physica Polonica Series B 48(3):431, DOI: 10.5506/APhysPolB.48.431 (2017)
- "Unexpected asymmetry of the charge distribution in the fission of $^{222,224}\text{Th}$ at high excitation energies" H. Paşca, A.V. Andreev, G.G. Adamian, and N.V. Antonenko, Phys. Rev. C 94, 064614 (2016)
- "Extraction of potential energy in charge asymmetry coordinate from experimental fission data" H. Paşca, A.V. Andreev, G.G. Adamian, and N.V. Antonenko, Eur. Phys. J. A 52, 369 (2016)
- "Possible origin of transition from symmetric to asymmetric fission", H. Paşca et. al., Phys. Lett. B 760 (2016) 800-806
- "Energy dependence of mass, charge, isotopic, and energy distributions in neutron-induced fission of ^{235}U and ^{239}Pu ", H. Paşca et. al., Phys. Rev. C 93, 054602 (2016)
- "Energy dependence of fission observables", H. Paşca, EPJ Web of Conferences 107, 07003 (2016)

Participări la conferințe internaționale

- 2018 Nuclear Structure and Related Topics (NSRT18, 3-6 June), Burgas, Bulgaria, "Charge-mass yields in the fission of highly excited heavy actinides" (Oral presentation);
- 2017 JINR/BLTP – SKLTP/CAS Joint Workshop on Physics of Strong Interacting Systems (26 November – 1 December 2017) Shenzhen University in China, "Multiple transitions between symmetric and asymmetric fission modes" (Oral presentation);
- Helmholtz International Summer School "NUCLEAR THEORY AND ASTROPHYSICAL APPLICATIONS", Dubna, Russian Federation, (10-22 July 2017), "Spin Distribution Of Fission Fragments In Binary Decay Reactions" (Oral presentation);
- Helmholtz International Summer School "NUCLEAR THEORY AND ASTROPHYSICAL APPLICATIONS", Dubna, Russian Federation, (10-22 July 2017), "Influence Of Compound Nucleus Excitation On Mass And Charge Distributions Of Fission Fragments" (Oral presentation);
- THEORY-4 Scientific Workshop on Nuclear Fission dynamics and the Emission of Prompt Neutrons and Gamma Rays, Varna, Bulgaria (20-22 June 2017), "The role of excitation energy of the compound nucleus in binary decay processes" (Oral presentation);
- International Seminar on Interactions of Neutrons with Nuclei (ISINN25), Dubna, Russian Federation, (22-26 May 2017): "Spins of complex fragments in binary reactions and in fission" (Oral presentation);
- 40th ASRC International Workshop "Experimental and Theoretical Advances in Fission and Heavy Nuclei", Japan Atomic Energy Agency (JAEA), Tokai, Japan (12-13 December 2016); "Energy dependence of the shape of the fission fragment charge distribution" (Oral presentation);

- Zakopane Conference on Nuclear Physics Extremes of the Nuclear Landscape, Zakopane, Poland, (August 28 September 4 2016) “Physical origin of the transition from symmetric to asymmetric fission fragment charge distribution” (Authors: H.Pasca, A.V. Andreev, G.G. Adamian, N. V. Antonenko)(Oral presentation by dr. G.G. Adamian);
- Carpathian Summer School of Physics (26 June- 09 July 2016), Sinaia, Romania: „Physical origins of the transition from symmetric to asymmetric fission fragment charge distribution” (Oral presentation);
- BLTP-KLTP Joint Workshop on Physics of Strong Interaction (28 June - 03 July 2016), Dubna, Russian Federation: “Physical origin of transition from symmetric to asymmetric fission” (Oral presentation);
- 119th Session of the Scientific Council of the Programme Advisory Committee for Nuclear Physics of JINR (18-19 February 2016), Dubna, Russian Federation: “Energy dependence of mass, charge, isotopic distributions and TKE in neutron-induced fission of 235U and 239Pu” (Oral presentation);
- Programme Advisory Committee for Nuclear Physics of JINR (29-10 January 2016), Dubna, Russian Federation: “Energy dependence of mass, charge, isotopic distributions and TKE in neutron induced fission of 235U and 239Pu” (Poster);
- 9th International Physics Conference of the Balkan Physical Union – BPU9 (24-27 August 2015), Istanbul, Turkey: “Spin distribution of binary decay products” (Oral presentation);
- Nuclear Structure and Related Topics – NSRT15 (14-18 July 2015), Dubna, Russian Federation: “Energy dependence of fission observables” (Oral presentation);
- SKLTP-BLTP JINR Joint Workshop on Physics of Strongly Interacting Systems (14-19 July 2014), Dubna, Russian Federation: “Angular momentum distribution of binary reaction products” (Oral presentation);

Seminarii susținute

- 17th of October 2016, Bogolyubov Laboratory of Theoretical Physics, JINR, Russian Federation, title “Cluster approach for describing nuclear fission” ;
- 31st of March 2017, Faculty of Physics, “Babes-Bolyai University”, Romania, “Cluster approach to fission”;
- 28th of July 2017, Bogolyubov Laboratory of Theoretical Physics, JINR, Russian Federation, Lecture for the young scientist of FSU countries, “The DNS approach to fission”;
- 8th of October 2017, Institut de Physique Nucleaire, Orsay, France “Transitions between symmetric and asymmetric fission modes in the region of light and heavy actinides”;

Premii și alte merite notabile

- Premiul Academiei Române “Ștefan Procopiu” pentru grupul de lucrări “The study of nuclear fission reactions, the theoretical description of experimental observables, and their comparison with measured data”(2018)
- Locul 1 JINR (2016) pentru proiectul “Cluster approach for describing nuclear fission”;
- JINR AYSS 2017 Grant (Grant No. 17-302-08).
- Bursa BLTP JINR **V.G. Soloviev** în 2018.

Data
06 Martie 2022

Semnătura

