

Universitatea Babeș-Bolyai
Facultatea de Fizică
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L I S T A
lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Cluster approach to fission (Dezintegrarea binară a nucleelor), conducator de doctorat Prof. Dr. Grigore Damian, data susținerii publice 28.04.2017.

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. “Influence of the transition from symmetric to asymmetric fission mode on the average total kinetic energy and neutron multiplicity”, Author(s): Pasca, H (Pasca, H.); Andreev, AV (Andreev, A., V); Adamian, GG (Adamian, G. G.); Antonenko, NV (Antonenko, N., V), Physical Review C 108(1) (2023), DOI:10.1103/PhysRevC.108.014613
2. “Fission within dinuclear system approach”, Author(s): Pasca, H (Pasca, H.); Andreev, AV (Andreev, A., V); Adamian, GG (Adamian, G. G.); Antonenko, NV (Antonenko, N., V), International Journal of Modern Physics E (2023) 2340005, DOI: 10.1142/S0218301323400050
3. “Excitation-energy dependence of the fission-fragment neutron-excess ratio”, Author(s): Pasca, H (Pasca, H.); Andreev, AV (Andreev, A., V); Adamian, GG (Adamian, G. G.); Antonenko, NV (Antonenko, N., V), Physical Review C 107(2) (2023), DOI:[10.1103/PhysRevC.107.024603](https://doi.org/10.1103/PhysRevC.107.024603)
4. “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
5. 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
6. “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).

7. "Influence of the entrance channel on spins of complex fragments in binary reactions", Paşca H., Kalandarov S.A., Adamian G.G., Antonenko N.V., Nuclear Physics A 980, DOI: 10.1016/j.nuclphysa.2018.10.060, (2018);
8. "Toward an understanding of the anomaly in charge yield of Mo and Sn fragments in the fission reaction U 238 (n ,f)", H. Paşca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, D. Lacroix, Phys. Rev. C 98, 014624 (2018);
9. "Suggestion for examination of a role of multi-chance fission", H. Paşca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, Eur. Phys. J. A 54: 104 (2018);
10. "Induced fission modes of Fermium and Nobelium isotopes", H. Paşca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, Nuclear Physics, Section A, Volume 977, p. 1-13 (2018);
11. "Charge distributions of fission fragments of low- and high-energy fission of Fm, No, and Rf isotopes", H. Paşca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, Phys. Rev. C 97, 034621 (2018);
12. "Influence of the entrance channel on spins of complex fragments in binary reactions", Paşca, H.; Kalandarov, Sh. A.; Adamian, G. G.; Antonenko, N. V. ,Nuclear Physics A, Volume 980, p. 143-155. (2018)
13. "Spins of complex fragments in binary reactions within a dinuclear system model", H. Paşca, Sh. Kalandarov, G.G. Adamian, N.V. Antonenko, Phys. Rev. C96 044611, DOI: 10.1103/PhysRevC.96.044611 (2017);
14. 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
15. "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)
16. "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)
17. "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)**
18. "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)**
19. "Extraction of potential energy in charge asym- metry coordinate from experimental fission data" **H. Paşca**, A.V. Andreev, G.G. Adamian, and N.V. Antonenko, **Eur. Phys. J. A 52, 369 (2016)**
20. "Possible origin of transition from symmetric to asymmetric fission", **H. Paşca et. al., Phys. Lett. B 760 (2016) 800-806**
21. "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)**

D. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Reviste

1. "Energy dependence of fission observables" , **H. Paşca**, **EPJ Web of Conferences 107, 07003 (2016)**
2. "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**
3. "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
4. Pasca, Horia, "Role of the excitation energy of the compound nucleus in binary decay processes", January 2018The European Physical Journal Conferences 169:00015, DOI: 10.1051/epjconf/201816900015
5. "Charge/mass yields in the fission of highly excited heavy actinides", Paşca H., Andreev A.V., Adamian G.G., Antonenko N.V, .EPJ Web of Conferences, 194, 10.1051/epjconf/201819406004 (2018);
6. "Role of the excitation energy of the compound nucleus in binary decay processes", H. Paşca, A.V. Andreev, G.G. Adamian, N.V. Antonenko, EPJ Web Conf. Volume 169 (2018);

Data:
14.05.2023

Semnătura:

