

Universitatea Babeş-Bolyai  
Facultatea de Fizică  
**Prof. Ladislau Nagy**

## LISTA

### lucrărilor științifice în domeniul disciplinelor din postul didactic

#### A. Teza de doctorat

Calculul secțiunilor eficace de ionizare

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

1. Chapter 5: Wave packet scattering in intermediate-energy p-He collisions, **L. Nagy**, F. Járai-Szabó, S. Borbély, T. Arthanayaka, B.R. Lamichhane, A. Hasan, and M. Schulz, in: State-of-the-Art Reviews on Energetic Ion-Atom and Ion-Molecule Collisions, ed. Dževad Belkić, Igor Bray, and Alisher Kadyrov (World Scientific, 2019)

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

1. Theoretical investigations on the projectile coherence effects in fully differential ionization cross sections, F. Jarai-Szabo, **L. Nagy**, European Physical Journal D 69 (2015) 4.
2. Ionization of NH<sub>3</sub> and CH<sub>4</sub> by electron impact, I. Toth, R.I. Campeanu, **L. Nagy**, European Physical Journal D 69 (2015) 2.
3. Triple-differential cross sections for the ionization of NH<sub>3</sub> by positron impact, I. Toth, **L. Nagy** and R. I Campeanu, Eur. Phys. J. D 70 (2016) 170.
4. Fully differential study of wave packet scattering in ionization of helium by proton impact, T. Arthanayaka, B.R. Lamichhane, A. Hasan, S. Gurung, J. Remolin, S. Borbély, F. Járai-Szabó, **L. Nagy** and M. Schulz, J. Phys. B: At. Mol. Opt. Phys. 49 (2016) 13LT02.
5. Two-center interference in the ionization of H<sub>2</sub> by ion impact: Comparison of different models, L. Czipa and **L. Nagy**, Phys. Rev. A 95 (2017) 062709
6. The effect of projectile wave packet width on the fully differential ionization cross-sections, **L. Nagy**, F. Járai-Szabó and S. Borbély, Journal of Physics B: Atomic, Molecular and Optical Physics 51 (2018) 144005
7. Electron correlations in the antiproton energy-loss distribution in He, S. Borbély, X.-M. Tong, S. Nagele, J. Feist, I. Březinová, F. Lackner, **L. Nagy**, K. Tőkési, and J. Burgdörfer, Physical Review A 98 (2018) 012707

8. Photoelectron holography of atomic targets, Borbely, S; Toth, A; Arbo, DG; Tokesi, K; **Nagy, L**, Physical Review A 99 (2019) 013413
9. Photoelectron holography of the H(2)(+)molecule, Kiss, Gellert Zsolt; Borbely, Sandor; Toth, Attila; **Nagy, Ladislau**, EUROPEAN PHYSICAL JOURNAL D 74 (2020) 128.
10. Photoelectron holography in a pump-drive setup, S. Borbély, A Tóth, K. Joós, **L. Nagy**, Physical Review A 113 (2026) 13107. 10.1103/8q2j-fh7l
11. Triple-Differential Cross-Section Calculations for Positron Impact Ionization of Argon, R.I. Campeanu, Zs. Bálint, **L. Nagy**, Atoms 13 (2025) 40. 10.3390/atoms13050040
12. Excitation of Helium by Proton and antiproton impact, Zs. Bálint, S. Borbély, **L. Nagy**, Atoms 12 (2024) 57. <https://doi.org/10.3390/atoms12110057>
14. Electron and Positron Impact Ionization of Molecules, **L. Nagy**, I Tóth, R.I. Campeanu, Atoms 12 (2024) 38. <https://doi.org/10.3390/atoms12080038>
15. Interference Effects in Fully Differential Ionization Cross Sections near the Velocity Matching in P + He Collisions, S. Bastola et al, Atoms 10 (2022) 119. 10.3390/atoms10040119

**D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate) - Reviste**

**- Selecție cu maximum 20 lucrări în volume de conferințe**

**E. Brevete obținute în întreaga activitate**

**Data:**

5.05.2026

**Semnătura:**