

## CURRICULUM VITA

Nikolaos George Nicolis  
Associate Professor  
Department of Physics,  
Nuclear Physics Laboratory,  
The University of Ioannina,  
Ioannina 45110  
GREECE

**Contact information:** Mobile: +30-6947048589  
E-mail: [micolis@uoi.gr](mailto:micolis@uoi.gr)  
Skype: NGNicolis  
Webpage: <https://ngn6.webnode.gr/>

**Birthday and place:** March 10, 1956, Athens, Greece

**Marital status:** Married, father of one child

### Education:

Ph.D. Physics, 1986, University of Rochester, Rochester, N.Y., U.S.A.  
M.A. Physics, 1982, University of Rochester, Rochester, N.Y., U.S.A.  
B.S. Physics, 1979, University of Athens, Athens, Greece.

**Ph.D. Thesis:** “*Angular Momentum Transfer to Medium Mass Evaporation Residues*”  
Supervised by Prof. T.M. Cormier

### Professional Appointments:

- **July 2024 – Present:** Adjunct Research Professor at the School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece
- **September 5, 2016 – August 31, 2024** (retirement): Associate Professor, Department of Physics, University of Ioannina, Ioannina, Greece.
- **February 2016 – January 2017:** Visiting Professor, Laboratory of Physical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Greece.
- **May 1994 – September 5, 2016:** Assistant Professor, Department of Physics, University of Ioannina, Ioannina, Greece.
- Adjunct Professor, Hellenic Open University (2011-12, 2013-14, 2014-15).
- **September 2011 – June 2012:** Visiting Professor, School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece.
- **January 1986 - April 1994:** Research Associate of Nuclear Chemistry, Department of Chemistry, Washington University, St. Louis, Missouri, U.S.A.
- **September 1979 - September 1985:** Research Assistant, Nuclear Structure Research Laboratory, University of Rochester, Rochester, N.Y., U.S.A.

### Other Appointments:

- Vice-President of the Hellenic Nuclear Physics Society (May 2006-May 2008).
- President of the Hellenic Nuclear Physics Society (May 2006).

**Memberships:**

- The American Physical Society, Nuclear Physics Division (May, 1982) ( <http://www.aps.org/> )
- The New York Academy of Sciences (April, 1988) ( <http://www.nyas.org/> )
- Hellenic Nuclear Physics Society (May, 1995) ( <http://radium.phys.uoa.gr/HNPS/> )
- Hellenic Physics Society (April, 2004) ( <http://eef.gr/> )
- Hellenic Institute of Nuclear Physics (May, 2010) ( <http://hinp.physics.uoi.gr/> )

**Referee in Physics Journals:**

- Physical Review C (since December 1989).
- Modern Physics Letters A (October 2016).
- International Journal of Modern Physics E (October 2016).
- Nuclear Science. Journal published by Science Publishing Group (<http://www.sciencepublishinggroup.com/j/ns> ) (since 2018).
- Revista Mexicana de Fisica (<https://rmf.smf.mx/>) (since March 2022)

**Research Interests:**

- Experimental Nuclear Physics with Emphasis on Simulations of Nuclear Reaction Mechanisms
- Spallation nuclear reactions. Fission.
- Monte Carlo simulations of compound nucleus decay.
- The statistical model of nuclear reactions.
- Author of the statistical model code MECO.

**Research collaborations:**

- Institute of Physics, Jagiellonian University, Krakow, Poland, in connection with the CHIMERA collaboration at LNS, Catania, Italy. (Monte-Carlo simulations of heavy fragment emission in intermediate energy heavy-ion collisions).
- Laboratory of Physical Chemistry, Department of Chemistry, National and Kapodistrian University of Athens, Greece (Spallation reactions induced by high energy neutrons and protons on low and high fissility targets).
- School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece (Study of neutron-induced reactions on targets heavier than Au, via the statistical model).

**Courses Taught:**

- General Physics – Electricity and Magnetism (2015-16, 2014-15, 2010-11, 2009-10, 2008-09, 2007-08, 2006-07).
- Modern Physics I – Special Relativity (2016-17, 2015-16, 2014-15, 2012-13).
- Modern Physics II - Nuclear Physics (1994-95).
- Quantum Physics (FYE-40) – Hellenic Open University (2011-12, 2013-14, 2014-15).
- Nuclear Physics I (Introduction to Nuclear Physics) (1996-97, 1995-96, 1994-95).
- Nuclear Physics II (Introduction to Nuclear Reactions) (2015-16, 2014-15, 2002-03, 2001-02, 2000-01, 1999-2000, 1998-99, 1997-98, 1996-97, 1995-96, 1994-95).
- Nuclear Physics (Graduate course) (2015-16).
- Electricity and Magnetism Laboratory for Physics majors (2016-17, 2015-16, 2014-15, 2012-13, 2010-11, 2009-10, 2008-09, 2007-08, 2006-07, 2005-06, 2004-05, 2003-04, 2002-03, 2001-02, 2000-01, 1999-2000, 1998-99, 1997-98, 1996-97, 1995-96, 1994-95).
- Wave Optics and Microwave Laboratory for Physics majors (2012-13, 1999-2000, 1998-99).

- Basic Electricity Laboratory for Chemistry majors (2010-11, 2009-10, 2008-09, 2007-08, 2006-07, 2005-06, 2004-05, 2003-04, 2002-03, 2001-02, 2000-01).

**Publications:**

- Seventy one (71) papers published in peer-reviewed journals.
- One hundred and four (104) presentations in Conferences, including articles published in Conference proceedings.
- Author of a book on Nuclear Reactions.
- Two (2) translations of physics textbooks into Greek.
- Co-editor of two (2) Conference proceedings volumes.
- Lecture notes and presentations (3) available at <http://ecourse.uoi.gr/>
- Five (5) articles published in proceedings of Interdisciplinary Conferences. Five (5) articles on the history of Physics published in newspapers.

**Citations:** Over 860, including self-citations (Scopus, February 2019).

**Monographs apart from the Ph.D. Thesis:**

- *Neutron excess in analytical expressions for fusion barrier parameters*, N.G. Nicolis, Eur. Phys. J. **A21**, 265(2004).
- *Sequential binary decay of highly excited nuclei*, N.G. Nicolis, Int. J. Mod. Phys. **E17**, 1541 (2008).
- *The equilibrium decay stage in proton-induced spallation reactions*, Nikolaos G. Nicolis in *Multifragmentation in Heavy-Ion Reactions: Theory and Experiments*, Chapter 16, Edited by Rajeev K. Puri, Yu-Gang Ma, and Arun Sharma, Copyright © 2023 Jenny Stanford Publishing Pte.Ltd.  
<https://www.taylorfrancis.com/books/edit/10.1201/9781003385134/multifragmentation-heavy-ion-reactions-rajeev-puri-arun-sharma-yu-gang-ma>
- *Introduction to Nuclear Reactions*, Nikolaos G. Nicolis, Kallipos, Open Academic Editions (2024) (<https://repository.kallipos.gr/handle/11419/13498> )

## PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. *The Validity of the Compound Nucleus Mechanism in the  $^{12}\text{C}(^{16}\text{O},\alpha)$  Reaction at High Energies*, T.M. Cormier, A. Szanto de Toledo, M.M. Coimbra, N. Carlin Filho, P.M. Stwertka, M. Herman and N. Nicolis, Phys. Lett. **118B**, 303(1982).
2. *Kinematics of the Gross Structures in the  $\alpha$  Spectrum of the  $^{12}\text{C}+^{16}\text{O}$  Reaction*, P.M. Stwertka, T.M. Cormier, M. Herman, N.G. Nicolis, A. Szanto de Toledo, M.M. Coimbra and N. Carlin Filho, Phys. Rev. Lett. **49**, 640(1982).
3. *Atomic-Charge-State Distributions of Fusion-Evaporation Residues and Nuclear Shape Changes at High Spin*, T.M. Cormier, P.M. Cormier, M. Herman, N.G. Nicolis and P.M. Stwertka, Phys. Rev. Lett. **51**, 542(1983). [[link](#)]
4. *Internal Conversion and the Evolution of Nuclear Structure at Very High-Spin:  $^{154-158}\text{Er}$* , T.M. Cormier, P.M. Stwertka, M. Herman and N.G. Nicolis, Phys. Rev. C **30**, (1984) 1953.
5.  *$^{24}\text{Mg}$  Yrast Sequence up to 30 MeV Excitation*, A. Szanto de Toledo, T.M. Cormier, M.M. Coimbra, N. Carlin Filho, P.M. Stwertka and N.G. Nicolis, Phys. Rev. C **30**, (1984) 1706.
6. *Use of Energy-Averaged Cross Sections for Nuclear Spectroscopy:  $^{26}\text{Mg}$  States in the Continuum*, M.M. Coimbra, N. Carlin Filho, A. Szanto de Toledo, P.M. Stwertka, M.G. Herman, N.G. Nicolis and T.M. Cormier, Phys. Rev. C **30**, 2092(1984).
7. *Inhibition of Nucleon Decay from High Spin Nuclei Near the  $N=82$  Shell Closure*, P.M. Stwertka, T.M. Cormier, M. Herman and N.G. Nicolis, Phys. Lett. **150B**, 91(1985).
8. *High-Spin Evolution of Quasicontinuum  $\gamma$  Radiation in  $^{156}\text{Er}$* , P.M. Stwertka, T.M. Cormier, M.G. Herman and N.G. Nicolis, Phys. Rev. Lett. **54**, 1635(1985).
9. *The Onset of Collectivity in Nuclei Near the  $N=82$ ,  $Z=64$  Double Closed Shell*, P.M. Stwertka, T.M. Cormier, N.G. Nicolis and M.G. Herman, Phys. Lett. **161B**, 70(1985).
10. *Angular Momentum Limitations in the High-Spin Gamma-Decay of Medium Mass Evaporation Residues*, N.G. Nicolis, T.M. Cormier, P.M. Stwertka and M.G. Herman, Phys. Lett. **178B**, 339(1986).
11. *A Dwarf Ball: Design, Instrumentation and Response Characteristics of a  $4\pi$  Light Charged-Particle Multidetector System*, D.G. Sarantites, L.G. Sobotka, T.M. Semkow, V. Abenante, J. Elson, J. Hood, Z. Li, N.G. Nicolis, D.W. Stracener, J. Valdes and D.C. Hensley, Nucl. Instr. Meth. **A264**, 319(1987).
12. *Deformation Effects in the Compound Nucleus Decay Using the Spin-Alignment Method*, N.G. Nicolis, D.G. Sarantites, L.A. Adler, F.A. Dilmanian, K. Honkanen, Z. Majka, L.G. Sobotka, Z. Li, T.M. Semkow, J.R. Beene, M.L. Halbert, D.C. Hensley, J.B. Natowitz, R.P. Schmitt, D. Fabris, G. Nebbia and G. Mouchaty, Phys. Rev. C **41**, 2118(1990).
13. *Target Excitation and Angular Momentum Transfer in Reactions of  $E/A = 11.9$  MeV  $^{28}\text{Si}$  with  $^{181}\text{Ta}$  from  $4\pi$  Charged Particle, Neutron and  $\gamma$ -ray Multiplicity Measurements*, Z. Majka, V. Abenante, Z. Li, N.G. Nicolis, D.G. Sarantites, T.M. Semkow, L.G. Sobotka, D.W. Stracener, J.R. Beene, D.C. Hensley and H.C. Griffin, Phys. Rev. C **40**, 2124(1989).
14. *Comment on "Unexpected Large Deformations in  $^{60}\text{Ni}$  Nuclei Produced in the Reaction  $120$  MeV  $^{30}\text{Si} + ^{30}\text{Si}$ "*, N.G. Nicolis and D.G. Sarantites, Phys. Rev. C **40**, 2422(1989).
15. *Nuclear-Structure Effects in Proton Evaporation Spectra*, D.G. Sarantites, C. Baktash, N.G. Nicolis, G. Garcia-Bermudez, V. Abenante, J.R. Beene, N.R. Johnson, M.L. Halbert, D.C. Hensley, F.K. McGowan, H.C. Griffin, I.Y. Lee, Z. Majka, M.A. Riley, T.M. Semkow, D.W. Stracener and A. Virtanen, Phys. Rev. Lett. **64**, 2129 (1990).
16. *Alpha-Particle Emission as a Probe of Nuclear Shapes and Structure Effects in Proton Evaporation Spectra*, N.G. Nicolis, D.G. Sarantites, C. Baktash, V. Abenante, L.A. Adler, J.R. Beene, F.A. Dilmanian, G. Garcia-Bermudez, H.C. Griffin, M.L. Halbert, D.C. Hensley, N.R. Johnson, I.Y. Lee,

- Z. Majka, F.K. McGowan, M.A. Riley, T.M. Semkow, D.W. Stracener and A. Virtanen, Nucl. Phys. A **520**, 153c(1990).
17. *Search for Valence Proton Effect in Sub-barrier Fusion Reactions*, E.M. Szanto, R. Liguori Neto, M.C.S. Figueira, A. Szanto de Toledo, M.G. Herman, N.G. Nicolis, P.M. Stwertka and T.M. Cormier, Phys. Rev. C **41**, 2164(1990).
  18. *Yield Decomposition and Excitation Energy reconstruction in an Incomplete Fusion Reaction*, A. Chbihi, L.G. Sobotka, Z. Majka, D.G. Sarantites, D.W. Stracener, V. Abenante, T.M. Semkow, N.G. Nicolis, D.C. Hensley, J.R. Beene and M.L. Halbert, Phys. Rev. C **43**, 652(1991).
  19. *Determination of the Nuclear Level Density at High Excitation Energy*, A. Chbihi, L.G. Sobotka, N.G. Nicolis, D.G. Sarantites, D.W. Stracener, Z. Majka, D.C. Hensley, J.R. Beene and M.L. Halbert, Phys. Rev. C **43**, 666(1991).
  20. *Statistical Emission of Deuterons and Tritons from Highly Excited Compound Nuclei*, N.G. Nicolis, D.G. Sarantites, L.G. Sobotka and R.J. Charity, Phys. Rev. C **45**, 2393(1992).
  21. *The Mechanism for the Disassembly of Excited  $^{16}\text{O}$  Projectiles into Four Alpha Particles*, R.J. Charity, J. Barreto, L.G. Sobotka, D.G. Sarantites, D.W. Stracener, A. Chbihi, N.G. Nicolis, R.Auble, C. Baktash, J.R. Beene, F. Bertrand, M. Halbert, D.C. Hensley, D.J.Horen, C. Ludemann, M. Thoennessen and R. Varner, Phys. Rev. C **46**, 1951 (1992).
  22. *Search for Entrance Channel Effects in the Decay of  $^{164}\text{Yb}$  Compound Nucleus at  $E^* \approx 54 \text{ MeV}$* , J.L. Barreto, N.G. Nicolis, D.G. Sarantites, R.J. Charity, L.G. Sobotka, D.W. Stracener, D.C. Hensley, J.R. Beene, C. Baktash, M. Halbert and M. Thoennessen, Phys. Rev. C **48**, 2881(1993).
  23. *Formation and decay of  $^{164}\text{Yb}^*$  in near and below-barrier fusion reactions*, N.G. Nicolis and D.G. Sarantites, Phys. Rev. C **48**, 2895(1993).
  24. *Estimation of the Time Scale of Last Chance Alpha Emission Using an "Atomic Clock"*, L. Gallamore, D.G. Sarantites, R.J. Charity, N.G. Nicolis, L.G. Sobotka, J.R. Beene, M.L. Halbert, and R.L. Varner, Phys. Rev. C **49**, R584(1994).
  25. *Decay of  $^{160}\text{Er}^*$  in  $^{16}\text{O} + ^{144}\text{Nd}$  and  $^{64}\text{Ni} + ^{96}\text{Zr}$  fusion reactions*, J.L. Barreto, N.G. Nicolis, D.G. Sarantites, R.J. Charity, L.G. Sobotka, D.W. Stracener, D.C. Hensley, J.R. Beene, C. Baktash, M.L. Halbert, and M. Thoennessen, Phys. Rev. C **51**, 2584(1995).
  26. *Dynamics of heavy-ion fusion probed by d/p double ratios from a cross bombardment*, M. Korolija, R.J. Charity, N.G. Nicolis, D.G. Sarantites, and L.G. Sobotka, Phys. Rev. C **52**, 3074(1995).
  27. *Time scale for the binary disintegration of the projectile in  $^{48}\text{Ti} + ^{93}\text{Nb}$  collisions at  $19.1 \text{ MeV/u}$* , P. Staszal, Z. Majka, L.G. Sobotka, V. Abenante, N.G. Nicolis, D.G. Sarantites, D.W. Stracener, C. Baktash, M.L. Halbert and D.C. Hensley, Phys. Lett. B **368**, 26(1996).
  28. *Collisions between  $^{48}\text{Ti} + ^{93}\text{Nb}$  at  $917 \text{ MeV}$* , T. Kozik, V. Abenante, R.J. Charity, A. Chbihi, Z. Majka, N.G. Nicolis, D.G. Sarantites, L.G. Sobotka, D.W. Stracener, C. Baktash, M.L. Halbert, D.C. Hensley and J. Lukasik, Phys. Rev. C **54**, 3088(1996).
  29. *Dynamic and quasistatic trajectories in quasifission reactions and particle emission*, V.P. Aleshin, M. Centelles, X. Vinas, and N.G. Nicolis, Nucl. Phys. A **679**, 441(2001).
  30. *CASTOR detector: Model, objectives and simulated performance*, A.L.S. Angelis, X. Aslanoglou, J. Bartke, M. Yu. Bogolyubsky, K. Chileev, S. Erine, E. Gładysz-Dziaduś, Yu. V. Kharlov, A.B. Kupepin, M. Lobanov, A.I. Maevskaya, G. Mavromanolakis, N. Nicolis, A.D. Panagiotou, S.A. Sadovskiy, and Z. Włodarczyk, Il Nuovo Cimento, **C24**, 755(2001).
  31. *Neutron cross section measurements in the Th-U cycle by the activation method*, D. Karamanis, S. Andriamonje, P.A. Assimakopoulos, G. Doukellis, D.A. Karademos, A. Karydas, M. Kokkoris, S. Kossionides, N.G. Nicolis, C. Papachristodoulou, C. Papadopoulos, N. Patronis, P. Pavlopoulos, G. Perdikakis, and R. Vlastou, Nucl. Instr. Meth. A **505**, 318(2003).
  32. *The elastic scattering of  $^6\text{Li} + ^{28}\text{Si}$  at near-barrier energies*, A. Pakou, N. Alamanos, A. Lagoyannis, A. Gillibert, E.C. Pollaco, P.A. Assimakopoulos, G. Doukelis, K. Ioannides, D. Karadimas, D. Karamanis, M. Kokkoris, S. Kossionides, N.G. Nicolis, X. Papachristodoulou, N. Patronis, and G. Perdikakis, Phys. Lett. B **556**, 21(2003).

33.  *$\alpha$ -Particle Production in the Reaction  ${}^6\text{Li}+{}^{28}\text{Si}$  at Near-Barrier Energies*, A. Pakou, N. Alamanos, A. Gillibert, M. Kokkoris, S. Kossionides, A. Lagoyannis, N.G. Nicolis, C. Papachristodoulou, D. Patiris, D. Pierroutsakou, E.C. Pollacco, and K. Rusek, Phys. Rev. Lett. **90**, 202701(2003).
34. *Neutron excess in analytical expressions for fusion barrier parameters*, N.G. Nicolis, Eur. Phys. J. **A21**, 265(2004).
35.  *$\alpha$ -particle production: Direct and compound contribution in the reaction  ${}^7\text{Li} + {}^{28}\text{Si}$  at near-barrier energies*, A. Pakou, N. G. Nicolis, K. Rusek, N. Alamanos, G. Doukelis, A. Gillibert, G. Kalyva, M. Kokkoris, A. Lagoyannis, A. Musumarra, C. Papachristodoulou, G. Perdikakis, D. Pierroutsakou, E. C. Pollacco, A. Spyrou, and Ch. Zarkadas, Phys. Rev. **C71**, 064602 (2005).
36. *Reaction channels of  ${}^6,7\text{Li} + {}^{28}\text{Si}$  at near-barrier energies*, A. Pakou, K. Rusek, N.G. Nicolis, N. Alamanos, G. Doukelis, A. Gillibert, G. Kalyva, M. Kokkoris, A. Lagoyannis, A. Musumarra, C. Papachristodoulou, G. Perdikakis, D. Pierroutsakou, E.C. Pollacco, A. Spyrou, and Ch.Zarkadas, J.Phys.(London) **G31**, (2005) S1723.
37. *The  ${}^6\text{Li}$  exclusive breakup on  ${}^{28}\text{Si}$  at 13 MeV*, A. Pakou, N. Alamanos, N.M. Clarke, N.J. Davis, G. Doukelis, G. Kalyva, M. Kokkoris, A. Lagoyannis, T.J. Mertzimekis, A. Musumarra, N.G. Nicolis, C. Papachristodoulou, N. Patronis, G. Perdikakis, D. Pierroutsakou, D. Roubos, K. Rusek, S. Spyrou and Ch. Zarkadas, Phys. Lett. **B633**, 691 (2006).
38. *Isospin Effects Studied with the CHIMERA Detector at 35 MeV/Nucleon*, R. Planeta, F. Amorini, A. Anzalone, L. Auditore, V. Baran, I. Berceanu, J. Blicharska, J. Brzychczyk, B. Borderie, R. Bougault, M. Bruno, G. Cardella, S. Cavallaro, M.B. Chatterjee, A. Chbihi, M. Colonna, M. D'Agostino, E. DeFilippo, R. Dayras, M. DiToro, J. Frankland, E. Galichet, W. Gawlikowicz, E. Geraci, F. Giustolisi, A. Grzeszczuk, P. Guazzoni, D. Guinet, M. Iacono-Manno, S. Kowalski, E. LaGuidara, G. Lanzano, G. Lanzalone, J. Lukasik, C. Maiolino, Z. Majka, N. LeNeindre, N.G. Nicolis, A. Pagano, M. Papa, M. Petrovici, E. Piasecki, S. Pirrone, G. Politi, A. Pop, F. Porto, M.F. Rivet, E. Rosato, F. Rizzo, S. Russo, P. Russotto, M. Sassiv, K. Schmidt, K. Siwek-Wilczynska, I. Skwira-Chalot, A. Sochocka, M.L. Sperduto, L. Swiderski, A. Trifiro, M. Trimarchi, G. Vannini, G. Verde, M. Vigilante, J.P. Wieleczko, J. Wilczynski, L. Zetta and W. Zipper, Acta Phys. Pol. **37**, 183(2006).
39. *Dynamical evolution of the  ${}^{197}\text{Au} + {}^{197}\text{Au}$  system at 15 MeV/nucleon*, I. Skwira-Chalot, K. Siwek-Wilczyńska, J. Wilczyński, F. Amorini, A. Anzalone, L. Auditore, V. Baran, J. Brzychczyk, G. Cardella, S. Cavallaro, M.B. Chatterjee, M. Colonna, E. De Filippo, M. Di Toro, A. Grzeszczuk, P. Guazzoni, S. Kowalski, E. La Guidara, G. Lanzano, G. Lanzalone, C. Maiolino, Z. Majka, N.G. Nicolis, A. Pagano, M. Papa, E. Piasecki, S. Pirrone, R. Planeta, G. Politi, F. Porto, F. Rizzo, P. Russotto, K. Schmidt, A. Sochocka, L. Świdorski, A. Trifirò, M. Trimarchi, L. Zetta, and W. Zipper, Int. J. Mod. Phys. **E15**, 495(2006).
40.  *${}^6,7\text{Li} + {}^{28}\text{Si}$  total reaction cross sections at near barrier energies*, A. Pakou, A. Musumarra, D. Pierroutsakou, N. Alamanos, P.A. Assimakopoulos, N. Divis, G. Doukelis, A. Gillibert, S. Harissopoulos, G. Kalyva, M. Kokkoris, A. Lagoyannis, T.J. Mertzimekis, N.G. Nicolis, C. Papachristodoulou, G. Perdikakis, D. Roubos, K. Rusek, S. Spyrou, and Ch. Zarkadas, Nucl. Phys. **A784**, 13 (2007).
41. *Ternary reactions in  ${}^{197}\text{Au} + {}^{197}\text{Au}$  collisions revisited*, I. Skwira-Chalot, K. Siwek-Wilczynska, J. Wilczynski, F. Amorini, A. Anzalone, L. Auditore, V. Baran, J. Brzychczyk, G. Cardella, S. Cavallaro, M.B. Chatterjee, M. Colonna, E. De Filippo, M. Di Toro, W. Gawlikowicz, A. Grzeszczuk, P. Guazzoni, S. Kowalski, E. La Guidara, G. Lanzano, G. Lanzalone, C. Maiolino, Z. Majka, N.G. Nicolis, A. Pagano, M. Papa, E. Piasecki, S. Pirrone, R. Planeta, G. Politi, F. Porto, F. Rizzo, P. Russotto, K. Schmidt, A. Sochocka, L. Swiderski, A. Trifiro, M. Trimarchi, J.P. Wieleczko, L. Zetta, and W. Zipper, Int. J. Mod. Phys. **E16**, 511 (2007).
42. *Dynamics of "Binary"  ${}^{197}\text{Au}+{}^{197}\text{Au}$  Collisions as a Test of Energy Dissipation Mechanism*, I.Skwira-Chalot, K.Siwek-Wilczynska, J.Wilczynski, F.Amorini, A.Anzalone, L.Auditore, V.Baran, J.Blocki, J.Brzychczyk, G.Cardella, S.Cavallaro, M.B.Chatterjee, M.Colonna, E.De Filippo, M.Di Toro, W.Gawlikowicz, A.Grzeszczuk, P.Guazzoni, S.Kowalski, E.La Guidara, G.Lanzano,

- G.Lanzalone, C.Maiolino, Z.Majka, N.G.Nicolis, A.Pagano, M.Papa, E.Piasecki, S.Pirrone, R.Planeta, G.Politi, F.Porto, F.Rizzo, P.Russotto, K.Schmidt, A.Sochocka, L.Swidorski, A.Trifiro, M.Trimarchi, J.P.Wieleczko, L.Zetta, W.Zipper, *Acta Phys.Pol.* **B38**, 1509 (2007).
43. *Strong transfer channels in the  ${}^6\text{Li} + {}^{28}\text{Si}$  system at near-barrier energies*, A. Pakou, K. Rusek, N. Alamanos, X. Aslanoglou, S. Harissopulos, M. Kokkoris, A. Lagoyannis, T.J. Mertzimekis, A. Musumarra, N.G. Nicolis, C. Papachristodoulou, D. Pierroutsakou, and D. Roubos, *Phys. Rev.* **C76**, 054601(2007).
  44. *Centrality dependence of isospin effect signatures in  ${}^{124}\text{Sn} + {}^{64}\text{Ni}$  and  ${}^{112}\text{Sn} + {}^{58}\text{Ni}$  reactions*, R. Planeta, F. Amorini, A. Anzalone, L. Auditore, V. Baran, A. Benisz, I. Berceanu, A. Bonasera, B. Borderie, J. Borgenstein, R. Bougault, M. Bruno, J. Brzychczyk, G. Cardella, S. Cavallaro, M.B. Chatterjee, A. Chbihi, M. Colonna, M.D' Agostino, R. Dayras, E.De Filippo, M.Di Toro, J. Frankland, E. Galichet, W. Gawlikowicz, E. Geraci, F. Giustolisi, A. Grzeszczuk, P. Guazzoni, D. Guinet, S. Kowalski, M. Krauze, E. La Guidara, G. Lanzano, G. Lanzalone, N.Le Neindre, J. Lukasik, C. Maiolino, Z. Majka, N.G. Nicolis, A. Pagano, M. Papa, M. Petrovici, E. Piasecki, S. Pirrone, G. Politi, A. Pop, F. Porto, M.F. Rivet, E. Rosato, F. Rizzo, P. Russotto, K. Schmidt, K. Siwek-Wilczynska, I. Skwira-Chalot, A. Sochocka, L. Swiderski, A. Trifiro, M. Trimarchi, G. Vannini, M. Vigilante, J.P. Wieleczko, J. Wilczynski, L. Zetta, and W. Zipper, *Phys. Rev.* **C77**, 014610 (2008).
  45. *Observation of Hyperheavy Toroidal Configurations in BUU Simulations of Heavy Ion Collisions*, A. Sochocka, R. Planeta, N.G. Nicolis, *Acta Phys. Pol.* **39**, 405(2008).
  46. *Re-separation modes of  ${}^{197}\text{Au} + {}^{197}\text{Au}$  system at sub-Fermi energies*, J. Wilczynski, I. Skwira-Chalot, K. Siwek-Wilczynska, W. Gawlikowicz, J. Lukasik, F. Amorini, A. Anzalone, L. Auditore, V. Baran, J. Brzychczyk, G. Cardella, S. Cavallaro, M.B. Chatterjee, M. Colonna, E.De Filippo, M. Di Toro, A. Grzeszczuk, P. Guazzoni, S. Kowalski, E. La Guidara, G. Lanzano, G. Lanzalone, C. Maiolino, Z. Majka, N.G. Nicolis, A. Pagano, E. Piasecki, S. Pirrone, R. Planeta, G. Politi, F. Porto, F. Rizzo, P. Russotto, K. Schmidt, A. Sochocka, L. Swiderski, A. Trifiro, M. Trimarchi, J.P. Wieleczko, L. Zetta, and W. Zipper, *Int. Jour. Mod. Phys.* **E17**, 41 (2008).
  47. *Search for hyperheavy toroidal nuclear structures formed in heavy ion collisions*, A. Sochocka, A. Benisz, P. Hachaj, N.G. Nicolis, R. Planeta and Z. Starypan, *Int. Jour. Mod. Phys.* **E17**, 190 (2008).
  48. *Sequential binary decay of highly excited nuclei*, N.G. Nicolis, *Int. J. Mod. Phys.* **E17**, 1541 (2008).
  49. *Fast Ternary and Quaternary Breakup of the  ${}^{197}\text{Au}+{}^{197}\text{Au}$  System in Collisions at 15 MeV/nucleon*, I.Skwira-Chalot, K.Siwek-Wilczynska, J.Wilczynski, F.Amorini, A.Anzalone, L.Auditore, V.Baran, J.Brzychczyk, G.Cardella, S.Cavallaro, M.B.Chatterjee, M.Colonna, E.De Filippo, M.Di Toro, W.Gawlikowicz, E.Geraci, A.Grzeszczuk, P.Guazzoni, S.Kowalski, E.La Guidara, G.Lanzalone, G.Lanzano, J.Lukasik, C.Maiolino, Z.Majka, N.G.Nicolis, A.Pagano, E.Piasecki, S.Pirrone, R.Planeta, G.Politi, F.Porto, F.Rizzo, P.Russotto, K.Schmidt, A.Sochocka, L.Swidorski, A.Trifiro, M.Trimarchi, J.P.Wieleczko, L.Zetta, W.Zipper, *Phys.Rev.Lett.* **101**, 262701 (2008).
  50. *Quest for Hyperheavy Toroidal Nuclei*, A.Sochocka, A.Benisz, N.G.Nicolis, T.Pietrzak, R.Planeta, Z.Starypan, *Acta Phys.Pol.* **B40**, 747 (2009).
  51. *Total reaction and fusion cross sections at sub- and near-barrier energies for the system  ${}^7\text{Li} + {}^{28}\text{Si}$* , A.Pakou, K.Rusek, N.Alamanos, X.Aslanoglou, M.Kokkoris, A.Lagoyannis, T.J.Mertzimekis, A.Musumarra, N.G.Nicolis, D.Pierroutsakou, D.Roubos, *Eur.Phys.J. A* **39**, 187 (2009).
  52. *Elastic backscattering measurements for  ${}^6\text{Li}+{}^{28}\text{Si}$  at sub- and near-barrier energies*, K.Zerva, N.Patronis, A.Pakou, N.Alamanos, X.Aslanoglou, D.Filipescu, T.Glodariu, M.Kokkoris, M.La Commara, A.Lagoyannis, M.Mazzocco, N.G.Nicolis, D.Pierroutsakou, M.Romoli, K.Rusek, *Phys.Rev.* **C80**, 017601 (2009).
  53. *Isospin Effects in Heavy-Ion Collisions: Some Results From CHIMERA Experiments At LNS And Perspectives With Radioactive Beams*, G.Cardella, F.Amorini, A.Anzalone, N.Arena, L.Auditore, R.Barnà, A.Benisz, I.Berceanu, M.B.Chatterjee, S.Cavallaro, E.De Filippo, U.Emanuele, W.Gawlikowicz, E. Geraci, L.Grassi, G.Giuliani, A.Grzeszczuk, P.Guazzoni, S.Kowalski, E.La Guidara, G.Lanzalone, I.Lombardo, S.Lo Nigro, D.Loria, C.Maiolino, N.G.Nicolis, A.Pagano,

- M.Papa, I.Pawelczak, M.Petrovici, S.Pirrone, R.Planeta, G.Politi, A.Pop, F.Porto, F.Previdi, M.Quinlan, F.Rizzo, E.Rosato, P.Russotto, W. U.Schroder, I.Skwira-Chalot, K.Siwiek-Wilczynska, K.Schmidt, A.Sochocka, L.Swidorski, A.Trifirò, M.Trimarchi, J.Töke, G.Verde, M.Vigilante, J.Wilczynski, L.Zetta and W.Zipper, CP1120, Perspectives in Nuclear Physics, edited by S.-C. Jeong, H. Miyatake, Y. Utsuno, H. Ikezoe, T. Motobayashi, and A. Bracco, AIP Conf. Proc. 1120, 38 (2009).
54. *Observation of fast, colinear partitioning of the  $^{197}\text{Au} + ^{197}\text{Au}$  system into three and four fragments of comparable size*, J. Wilczynski, I. Skwira-Chalot, K. Siwek-Wilczynska, A. Pagano, F. Amorini, A. Anzalone, L. Auditore, V. Baran, J. Brzychczyk, G. Cardella, S. Cavallaro, M.B. Chatterjee, M. Colonna, E. De Filippo, M. Di Toro, W. Gawlikowicz, E. Geraci, A. Grzeszczuk, P. Guazzoni, S. Kowalski, E. La Guidara, G. Lanzalone, J. Lukasik, C. Maiolino, Z. Majka, N.G. Nicolis, M. Papa, E. Piasecki, S. Pirrone, R. Planeta, G. Politi, F. Porto, F. Rizzo, P. Russotto, K. Schmidt, A. Sochocka, L. Swiderski, A. Trifiro, M. Trimarchi, J.P. Wieleczko, L. Zetta, and W. Zipper, Phys. Rev. C **81**, 024605 (2010).
  55. *Light Fragments Production and Isospin Dependences in Sn+Ni and Sn+Al Central Collisions at 25 MeV/A and 35 MeV/A from REVERSE/ISOSPIN Experiments*, K. Schmidt, A. Benisz, A. Bubak, A. Grzeszczuk, S. Kowalski, W. Zipper, F. Amorini, A. Anzalone, L. Auditore, V. Baran, J. Brzychczyk, G. Cardella, S. Cavallaro, M.B. Chatterjee, M. Colonna, E. DeFilippo, M. DiToro, W. Gawlikowicz, E. Geraci, P. Guazzoni, E. La Guidara, G. Lanzalone, J. Lukasik, C. Maiolino, Z. Majka, N. Nicolis, A. Pagano, M. Papa, E. Piasecki, S. Pirrone, R. Planeta, G. Politi, F. Porto, F. Rizzo, P. Russotto, K. Siwek-Wilczynska, I. Skwira-Chalot, A. Sochocka, L. Swiderski, A. Trifiro, M. Trimarchi, J.P. Wieleczko, J. Wilczynski, L. Zetta, Acta Phys. Pol. **41**, 387 (2010).
  56. *Aligned breakup of heavy nuclear systems as a new type of deep inelastic collisions at small impact parameters*, J. Wilczynski, I. Skwira-Chalot, K. Siwek-Wilczynska, A. Pagano, F. Amorini, A. Anzalone, L. Auditore, V. Baran, J. Brzychczyk, G. Cardella, S. Cavallaro, M. B. Chatterjee, M. Colonna, E. De Filippo, M. Di Toro, W. Gawlikowicz, E. Geraci, A. Grzeszczuk, P. Guazzoni, S. Kowalski, E. La Guidara, G. Lanzalone, J. Lukasik, C. Maiolino, Z. Majka, N. G. Nicolis, M. Papa, E. Piasecki, S. Pirrone, R. Planeta, G. Politi, F. Porto, F. Rizzo, P. Russotto, K. Schmidt, A. Sochocka, L. Swiderski, A. Trifiro, M. Trimarchi, J. P. Wieleczko, L. Zetta, and W. Zipper, Phys. Rev. C **81**, 067604 (2010).
  57. *Probing the potential and reaction coupling effects of  $^{6,7}\text{Li} + ^{28}\text{Si}$  at sub- and near-barrier energies with elastic backscattering*, K. Zerva, A. Pakou, K. Rusek, N. Patronis, N. Alamanos, X. Aslanoglou, D. Filipescu, T. Glodariu, N. Keeley, M. Kokkoris, M. La Commara, A. Lagoyannis, M. Mazzocco, N.G. Nicolis, D. Pierrotsakou and M. Ramoli, Phys. Rev. C **82**, 044607 (2010).
  58. *Global characteristics of  $^{197}\text{Au} + ^{197}\text{Au}$  collisions at 23 A MeV*, R.Najman, F.Amorini, L.Auditore, A.Bubak, T.Cap, G.Cardella, E. De Filippo, E.Geraci, L.Grassi, A.Grzeszczuk, E.La Guidara, J.Han, D.Ioria, S.Kowalski, T.Kozik, G.Lanzalone, I.Lombardo, Z.Majka, N.G.Nicolis, A.Pagano, E.Piasecki, S.Pirrone, R.Płaneta, G.Politi, F.Rizzo, P.Russotto, K.Siwiek-Wilczyńska, I.Skwira-Chalot, A.Sochocka, A.Trifirò, M.Trimarchi, J.Wilczyński, G.Verde, and W.Zipper, EPJ Web of Conferences 31, 00026 (2012).
  59. *Fragment production in the  $^{197}\text{Au} + ^{197}\text{Au}$  reaction at 23 A MeV*, R. Najman, R. Planeta, A. Sochocka and N.G. Nicolis, Phys. Scr. T154, 014008 (2013).
  60. *Measurement of the  $^{237}\text{Np}(n, f)$  Cross Section with the MicroMegs Detector*, M.Diakaki, M.Kokkoris, A.Kyrtos, N.G.Nicolis, E.Skordis, R.Vlastou, S.Andriamonje, E.Berthoumieux and A.Lagoyannis, Nucl. Data Sheets 119, 52 (2014).
  61. *New Measurements of the  $^{241}\text{Am}(n, 2n)^{240}\text{Am}$  Cross Section*, A. Kalamara, M. Diakaki, R. Vlastou, M. Kokkoris, N. Nikolis, A. Tsinganis, S. Ashley, M. Axiotis, and A. Lagoyannis, Nucl. Data Sheets 119, 76 (2014).
  62. *Aligned ternary partitioning of the  $^{197}\text{Au} + ^{197}\text{Au}$  system at 23 A MeV beam energy*, T.Cap, K.Siwiek-Wilczynska, I.Skwira-Chalot, J.Wilczynski, F.Amorini, L.Auditore, G.Cardella, E.De Filippo, E.Geraci, L.Grassi, A.Grzeszczuk, E.La Guidara, J.Han, T.Kozik, G.Lanzalone,



- I.Lombardo, R.Najman, N.G.Nicolis, A.Pagano, M.Papa, E.Piasecki, S.Pirrone, R.Planeta, G.Politi, F.Rizzo, P.Russotto, A.Trifiro, M.Trimarchi, G.Verde, W.Zipper, Phys. Scr. 89, 054005 (2014).
63. *Study of the  ${}^6\text{Li} + p \rightarrow {}^3\text{He} + {}^4\text{He}$  reaction in inverse kinematics*,  
Ch.Betsou, A.Pakou, F.Cappuzzello, L.Acosta, C.Agodi, X.Aslanoglou, D.Carbone, M.Cavallaro, A.Di Pietro, J.P.Fernandez-Garcia, P.Figuera, M.Fisichella, A.Foti, N.Keeley, G.Marquinez-Duran, I.Martel, M.Mazzocco, N.G.Nicolis, D.Pierroutsakou, K.Rusek, O.Sgouros, V.Soukeras, E.Stiliaris, E.Strano, D.Torresi,  
Eur. Phys.J. A 51, 86 (2015).
64. *Freeze-out configuration properties in the  ${}^{197}\text{Au}+{}^{197}\text{Au}$  reaction at 23A MeV*,  
R. Najman, R. Planeta, A. Sochocka, F. Amorini, L. Auditore, T. Cap, G. Cardella, E. De Filippo, E. Geraci, A. Grzeszczuk, S. Kowalski, T. Kozik, G. Lanzalone, I. Lombardo, Z. Majka, N. G. Nicolis, A. Pagano, E. Piasecki, S. Pirrone, G. Politi, F. Rizzo, P. Russotto, K. Siwek-Wilczynska, I. Skwira-Chalot, A. Trifiro, M. Trimarchi, J. Wilczynski, and W. Zipper,  
Phys. Rev. C 92, 064614 (2015).
65.  *$\alpha$  and  ${}^3\text{He}$  production in the  ${}^7\text{Be}+{}^{28}\text{Si}$  reaction at near-barrier energies: Direct versus compound-nucleus mechanisms*,  
O.Sgouros, A.Pakou, D.Pierroutsakou, M.Mazzocco, L.Acosta, X.Aslanoglou, Ch.Betsou, A.Boiano, C.Boiano, D.Carbone, M.Cavallaro, J.Grebosz, N.Keeley, M.La Commara, C.Manea, G.Marquinez-Duran, I.Martel, N.G.Nicolis, C.Parascandolo, K.Rusek, A.M.Sanchez-Benitez, C.Signorini, F.Soramel, V.Soukeras, C.Stefanini, E.Stiliaris, E.Strano, I.Strojek, D.Torresi,  
Phys.Rev. C 94, 044623 (2016). [[link](#)]
66. *Determination of Impact Parameters in Aligned Breakup of Projectile-like Fragments in  ${}^{197}\text{Au} + {}^{197}\text{Au}$  Collisions at 23A MeV*,  
T.Cap, K.Siwek-Wilczynska, J.Wilczynski, F.Amorini, L.Auditore, G.Cardella, E.De Filippo, E.Geraci, L.Grassi, A.Grzeszczuk, E.La Guidara, J.Han, T.Kozik, G.Lanzalone, I.Lombardo, R.Najman, N.G.Nicolis, A.Pagano, M.Papa, E.Piasecki, S.Pirrone, R.Planeta, G.Politi, F.Rizzo, P.Russotto, I.Skwira-Chalot, A.Trifiro, M.Trimarchi, G.Verde, W.Zipper  
Acta Phys.Pol. B47, 983 (2016).
67. *Investigation of the Freeze-out Configuration in the  ${}^{197}\text{Au} + {}^{197}\text{Au}$  Reaction at 23 A MeV*  
R.Najman, R.Planeta, A.Sochocka, F.Amorini, L.Auditore, T.Cap, G.Cardella, E.De Filippo, E.Geraci, A.Grzeszczuk, S.Kowalski, T.Kozik, G.Lanzalone, I.Lombardo, Z.Majka, N.G.Nicolis, A.Pagano, E.Piasecki, S.Pirrone, G.Politi, F.Rizzo, P.Russotto, K.Siwek-Wilczynska, I.Skwira-Chalot, A.Trifiro, M.Trimarchi, J.Wilczynski and W.Zipper,  
Acta Phys.Pol. B47, 975 (2016).
68. *Elastic scattering of  ${}^7\text{Be}+{}^{28}\text{Si}$  at near-barrier energies*,  
O.Sgouros, A.Pakou, D.Pierroutsakou, M.Mazzocco, L.Acosta, X.Aslanoglou, Ch.Betsou, A.Boiano, C.Boiano, D.Carbone, M.Cavallaro, J.Grebosz, N.Keeley, M.La Commara, C.Manea, G.Marquinez-Duran, I.Martel, N.G.Nicolis, C.Parascandolo, K.Rusek, A.M.Sanchez-Benitez, C.Signorini, F.Soramel, V.Soukeras, C.Stefanini, E.Stiliaris, E.Strano, I.Strojek and D.Torresi,  
Phys.Rev. C 95, 054609 (2017). [[Link](#)]
69.  *${}^{197}\text{Au}(n,2n)$  reaction cross section in the 15-21 MeV energy range*,  
A. Kalamara, R. Vlastou, M. Kokkoris, N.G. Nicolis, N. Patronis, M. Serris, V. Michalopoulou, A. Stamatopoulos, A. Lagoyannis and S. Harissopoulos, Phys. Rev. C 97, 034615 (2018). [[Link](#)]
70. *The  $(n,2n)$  reaction for the lightest stable Erbium isotope ( ${}^{162}\text{Er}$ ) from reaction threshold up to 19 MeV*,  
E. Georgali, Z. Eleme, N. Patronis, X. Aslanoglou, M. Axiotis, M. Diakaki, V. Foteinou, S. Harissopoulos, A. Kalamara, M. Kokkoris, A. Lagoyannis, N.G. Nicolis, G. Provatas, S. Stoulos, A. Tsinganis, E. Vagena, R. Vlastou, and S. M. Vogiatzi, Phys. Rev. C 98, 014622 (2018). [[Link](#)]
71. *Microscopic description of proton-induced spallation reactions with the Constrained Molecular Dynamics (CoMD) Model*, A. Assimakopoulou, G.A. Souliotis, A. Bonasera, A. Botvina, N.G. Nicolis and M. Veselsky, J. Phys. G: Nucl. Part. Phys. 46 075104 (2019). [[link](#)]

**PRESENTATIONS AND CONTRIBUTED PAPERS  
TO CONFERENCES AND MEETINGS**

1. *A Dye-Laser-Cryogenic Helium Jet System and Recoil Mass-Separator for Studies of Nuclei far from Stability*, D.L. Clark, A.G. Martin, N.G. Nicolis, S. Banerjee, T.M. Cormier, P.M. Stwertka, B.S. Lin and M.G. Herman. Fourth International Conference on Nuclei far from Stability, Helsingør (1981).
2. *Broad Structures in the Inclusive  $\alpha$  Spectra of the  $^{16}\text{O} + ^{12}\text{C}$  Reaction at High Energies*, P.M. Stwertka, T.M. Cormier, M. Herman, N.G. Nicolis, A. Szanto de Toledo, M.M. Coimbra and N. Carlin Filho. Amherst Meeting of the American Physical Society. Oct. 14-16, 1982. Bull. Am. Phys. Soc. **27**, 699(1982).
3. *Mass Spectra of Evaporation Residues in Si + Sn Reactions*, P.M. Stwertka, T.M. Cormier, M. Herman and N.G. Nicolis, Baltimore Meeting of the American Physical Society. April 19-21, 1983. Bull. Am. Phys. Soc. **28**, 671(1983).
4. *Atomic Charge State Distributions Following Heavy Ion Fusion and Internal Conversion in the Continuum*, T.M. Cormier, P.M. Stwertka, M. Herman and N. Nicolis. Bull. Am. Phys. Soc. **28**, 733(1983).
5. *Evidence for Super-Deformed Shapes in the  $^{148}\text{Gd}$  Region from Heavy Ion Fusion Reactions*, P.M. Stwertka, T.M. Cormier, M.G. Herman D. Koon and N. Nicolis. Washington Meeting of the American Physical Society. April 23-26, 1984. Bull. Am. Phys. Soc. **29**, 757(1984).
6.  *$\gamma$ -Ray Multiplicity Distributions in the High Spin Decay of  $^{80-78}\text{Sr}$* , N. Nicolis, T.M. Cormier, M. Herman, D. Koon and P.M. Stwertka, Washington Meeting of the American Physical Society. April 23-26, 1984. Bull. Am. Phys. Soc. **29**, 674(1984).
7. *Study of  $^{156}\text{Yb}$* , K.N. Gamadia, M. Gai, J.F. Ennis, S.M. Sterbenz, N. Tsoupas, D.A. Bromley, P.M. Stwertka, T.M. Cormier, M. Herman and N. Nicolis. Washington Meeting of the American Physical Society. April 23-26, 1984. Bull. Am. Phys. Soc. **29**, 718(1984).
8.  *$\gamma$ -Multiplicity Distributions in the High Spin Decay of  $^{80-78}\text{Sr}$* , N.G. Nicolis, T.M. Cormier, P.M. Stwertka and M.G. Herman. INS-RIKEN International Symposium on Heavy-Ion Physics. August 24-25 (Tokyo) and August 27-31 (Mt. Fuji), Japan, 1984.
9. *Atomic Charge State Distributions of Fusion Evaporation Residues and Nuclear Shape Changes at High Spin*, T.M. Cormier, P.M. Stwertka, M. Herman and N. Nicolis. Proceedings of the International Conference on Nuclear Physics. Florence, Italy. August 29 - September 3, 1983. Volume 1, p.668 (D182).
10. *Performance of the Rochester Recoil Mass Spectrometer*, T.M. Cormier, P.M. Stwertka, N. Nicolis and M.G. Herman, Conference on Instrumentation for Heavy-Ion Research. Oak Ridge, Tennessee, October 22-24., 1984, Proceedings p.85.
11. *The Observation of Collectivity in  $^{145-148}\text{Gd}$* , P.M. Stwertka, T.M. Cormier, N.G. Nicolis and M.G. Herman. Washington Meeting of the American Physical Society. April 24-27, 1985. Bull. Am. Phys. Soc. **30**, 743(1985).
12. *Properties of  $^{156}\text{Er}$  at Very High Spin*, T.M. Cormier, P.M. Stwertka, N.G. Nicolis and M.G. Herman. Washington Meeting of the American Physical Society. April 24-27, 1985. Bull. Am. Phys. Soc. **30**, 760(1985).
13. *A Study of High Energy Dipole Radiation in  $^{28}\text{Si} + ^{90}\text{Zr}$  Reactions*, M.G. Herman, T.M. Cormier, N.G. Nicolis and P.M. Stwertka. Washington Meeting of the American Physical Society. April 24-27, 1985. Bull. Am. Phys. Soc. **30**, 742(1985).
14. *Spin Distributions of Medium Mass Evaporation Residues*, N.G. Nicolis, T.M. Cormier, P.M. Stwertka and M.G. Herman. Washington Meeting of the American Physical Society. April 24-27,

1985. Bull. Am. Phys. Soc. **30**, 708(1985).
15. *Giant Electric Dipole Radiation in Fusion Reactions with  $^{54}\text{Fe}$* , M.G. Herman, N.G. Nicolis, M. Satteson, T.M. Cormier and P.M. Stwertka. Washington Meeting of the American Physical Society. April 28- May 1, 1986. Bull. Am. Phys. Soc. **31**, 819(1986).
  16. *Deformation Effects in the High-Spin Decay of  $^{82}\text{Zr}$* , N.G. Nicolis, T.M. Cormier, P.M. Stwertka and M.G. Herman. Fall Meeting of the APS and CAP Divisions of Nuclear Physics, Vancouver, B.C. Canada, October 9-11, 1986. Bull. Am. Phys. Soc. **31**, 1206(1986).
  17. *Alpha-Particle Angular Distributions and Nuclear Shapes at High Spin*, N.G. Nicolis, L.A. Adler, D.G. Sarantites, K. Honkanen, M. Rajacopalan, J.R. Beene, M.L. Halbert, D. Hensley, J. Natowitz, R.P. Schmitt, D. Fabris, G. Nebbia, G. Mouchaty and N. Namboodiri. Washington Meeting of the American Physical Society, 20-23 April 1987. Bull. Am. Phys. Soc. **32**, 1077(1987).
  18. *Spin and Temperature Dependence of Nuclear Deformation Using Alpha-Gamma Angular Correlations*, N.G. Nicolis, D.G. Sarantites, L.A. Adler, F.A. Dilmanian, K. Honkanen, Z. Majka, L.G. Sobotka, Z. Li, T. Semkow, J.R. Beene, M.L. Halbert, D.C. Hensley, J.B. Natowitz, R.P. Schmitt, D. Fabris, G. Nebbia and G. Mouchaty, Proceedings of the International Conference on Nuclear Shapes, Crete, Greece, 28 June - 4 July, 1987. "The Variety of Nuclear Shapes", World Scientific, J.D.Garrett, C.A.Kalfas, G.Anagnostatos, R.Vlastou, editors, p.526.
  19. *A New Look at the Damped Heavy Ion Collisions with  $4\pi$  Charged-Particle, Neutron and  $\gamma$ -Multiplicity Measurements*, Z. Majka, V. Abenante, J.R. Beene, H.C. Griffin, D.C. Hensley, N.G. Nicolis, D.G. Sarantites, T.M. Semkow, L.G. Sobotka and D.W. Stracener. Annual Fall Meeting of the Division of Nuclear Physics of the American Physical Society, Santa Fe, New Mexico; 13-15 October 1988. Bull. Am. Phys. Soc. **33** (1988) 1573.
  20. *A New Look at Reaction Mechanisms with  $4\pi$  Charged-Particle and Neutron Multiplicity Measurements*, D.G. Sarantites, T.M. Semkow, L.G. Sobotka, V. Abenante, Z. Li, Z. Majka, N.G. Nicolis, D.W. Stracener and D.C. Hensley. Proceedings of the "Texas A&M Symposium on Hot Nuclei", Dec. 7-10, 1987, World Scientific Publ. Co.
  21. *Alpha-Particle and Proton Probes of Nuclear Shapes in the Rare Earth and Mass 80 Regions*, D.G. Sarantites, N.G. Nicolis, V. Abenante, Z. Majka, T.M. Semkow, C. Baktash, J.R. Beene, G. Garcia-Bermudez, M.L. Halbert, D.C. Hensley, N.R. Johnson, I.Y. Lee, F.K. McGowan, M.A. Riley, A. Virtanen and H.C.Griffin. Int. Conf. on "*The Spectroscopy of Heavy Nuclei*" Crete, Greece, 25 June - 1 July, 1989. Ed. J. Sharpey-Schafer and L.D. Skouras, (World Scientific, 1990), Int. Phys. Conf. Ser. No. **105**, (1990) p.39.
  22. *Alpha-Particles as Probes of Nuclear Shape in the Rare Earths and Structure Effects on Proton Emission in the Mass 80 Region*, D.G. Sarantites, N.G. Nicolis, V. Abenante, Z. Majka, T.M. Semkow, C. Baktash, J.R. Beene, G. Garcia-Bermudez, M.L. Halbert, D.C. Hensley, N.R. Johnson, I.Y. Lee, F.K. McGowan, M.A. Riley, A. Virtanen and H.C.Griffin. Proceedings of the American Chemical Society Division of Nuclear Chemistry and Technology Symposium on Exotic Nuclear Spectroscopy, Miami Beach, Florida, 11-15 September, 1989. Published in "Exotic Nuclear Spectroscopy" Ed. W.C. Harris, Plenum Press, New York (1990), p. 457.
  23. *Three-Quasiparticle Excitations in  $^{83}\text{Sr}$* , G. Garcia-Bermudez, C. Baktash, J.R. Beene, M.L. Halbert, D.C. Hensley, N.R. Johnson, I.Y. Lee, F.K. McGowan, M.A. Riley, A. Virtanen, M.A. Cardona, D.G. Sarantites, N.G. Nicolis, V. Abenante, Z. Majka, T.M. Semkow and H.C. Griffin, Proc. Int. Conf. Nucl. Structure in the Nineties, Oak Ridge, Tennessee, Vol. 1, p. 90, (1990).
  24. *Statistical Model Calculations in Highly Excited Compound Nuclei*, N.G. Nicolis and J.R. Beene, Fall Meeting of the American Physical Society, October 24-27, 1990, Urbana-Champaign, IL. Bull. Am. Phys. Soc. **35**, 1675(1990).
  25. *The  $4\text{-}\alpha$  Breakup of  $^{16}\text{O}$ . Prompt or Sequential?*, J. Barretto, R. Charity, L.G. Sobotka, D.G. Sarantites, D.W. Stracener, A. Chbihi, N.G. Nicolis, R. Auble, C. Baktash, J.R. Beene, F. Bertrand, M. Halbert, D.C. Hensley, D. Horen, C. Ludermann, M. Thoennessen and R. Varner. Bull. Am. Phys. Soc. **36**, 1272(1991).

26. *Observation of Structural Differences in Proton Evaporation Spectra*, D.G. Sarantites, D. Stracener, A. Chbihi, N.G. Nicolis, M.L. Halbert, C. Baktash, I.Y. Lee, D.C. Hensley, F. McGowan, J.R. Beene, N.R. Johnson and F. Bertrand. *Bull. Am. Phys. Soc.* **36**, 1270(1991).
27. *Performance Characteristics of a 4 $\pi$  Charged Particle Detector and its Applications to Spectroscopic Studies*, D.W. Stracener, D.G. Sarantites, L.G. Sobotka, J. Elson, J.T. Hood, Z. Majka, N.G. Nicolis, V. Abenante, A. Chbihi and D.C. Hensley. *Bull. Am. Phys. Soc.* **36**, 1301(1991).
28. *On the Mechanism for the 4- $\alpha$  Breakup of Excited Oxygen Projectiles*, R.J. Charity, J. Barretto, L.G. Sobotka, D.G. Sarantites, D.W. Stracener, A. Chbihi, N.G. Nicolis, R. Auble, C. Baktash, J.R. Beene, F. Bertrand, M. Halbert, D.C. Hensley, D. Horen, C. Ludermann, M. Thoennesen and R. Varner. *Bull. Am. Phys. Soc.* **36**, 2134(1991).
29. *Observation of Structural Differences in Proton Evaporation Spectra*, D. Stracener, D.G. Sarantites, A. Chbihi, N.G. Nicolis, M.L. Halbert, C. Baktash, I.Y. Lee, D.C. Hensley, F. McGowan, J.R. Beene, N.R. Johnson and F. Bertrand. *Bull. Am. Phys. Soc.* **36**, 2139(1991).
30. *Statistical Deuteron and Triton Emission from Highly Excited Compound Nuclei*, N.G. Nicolis, D.G. Sarantites, L.G. Sobotka and R.J. Charity, *Bull. Am. Phys. Soc.* **36**, 2142(1991).
31. *Energy Division in the Reaction  $E/A = 19$  MeV  $^{48}\text{Ti}$  on  $^{93}\text{Nb}$* , V. Abenante, D.G. Sarantites, L.G. Sobotka, A. Chbihi, N.G. Nicolis, D.W. Stracener, J.R. Beene, M.L. Halbert and D.C. Hensley, *Bull. Am. Phys. Soc.* **36**, 2142(1991).
32. *Lifetimes of Subbarrier  $\alpha$ -particle emission from Compound Nuclei by the Atomic Clock Method*, D.G. Sarantites, L. Gallamore, J. Barreto, R.J. Charity, L.G. Sobotka, N.G. Nicolis, D.C. Hensley, J.R. Beene, M.L. Halbert and R. Varner, *Bull. Am. Phys. Soc.* **37**, 1260(1992).
33. *The Decay Width of Highly Excited Oxygen Projectiles*, R.J. Charity, J. Barreto, L.G. Sobotka, D.G. Sarantites, D.W. Stracener, A. Chbihi, N.G. Nicolis, R. Auble, C. Baktash, J.R. Beene, F. Bertrand, M. Halbert, D.C. Hensley, D. Horen, C. Ludermann, M. Thoennesen, and R. Varner, *Bull. Am. Phys. Soc.* **37**, 1284(1992).
34. *Entrance Channel Effects in the Decay of  $^{164}\text{Yb}$  Compound Nucleus*, J.L. Barreto, D.G. Sarantites, R.J. Charity, N.G. Nicolis, L.G. Sobotka, D.W. Stracener, D.C. Hensley, J.R. Beene, C. Baktash and M. Halbert. *Bull. Am. Phys. Soc.* **37**, 1284(1992).
35. *Charged Particles as Probes to Study Entrance Channel Effects in the Composite System  $^{164}\text{Yb}$* , J.L. Barreto, D.G. Sarantites, R.J. Charity, N.G. Nicolis, L.G. Sobotka, D.W. Stracener, D.C. Hensley, J.R. Beene, M. Halbert, and C. Baktash, in *Advances in Nuclear Dynamics*, Proc. of the 8th Winter Workshop on Nuclear Dynamics, Jackson Hole - Wyoming, Edited by W. Bauer and B. Back (World Scientific, Singapore, 1992), p 8.
36. *The Mechanism for the Disassembly of Excited  $^{16}\text{O}$  Projectiles into Four Alpha Particles*, R.J. Charity, J.L. Barreto, L.G. Sobotka, D.G. Sarantites, D.W. Stracener, A. Chbihi, N.G. Nicolis, R. Auble, C. Baktash, J.R. Beene, F. Bertrand, D.C. Hensley, D.J. Horen, C. Ludemann, M. Thonnesen and R. Varner, in *Advances in Nuclear Dynamics*, Proc. of the 8th Winter Workshop on Nuclear Dynamics, Jackson Hole - Wyoming, Edited by W. Bauer and B. Back (World Scientific, Singapore,1992), p 56.
37. *Nuclear Structure Effects in Entry State Population Using "Total Spectroscopy" of  $^{58}\text{Ni}(^{28}\text{Si},4p)^{82}\text{Sr}$  at 130 MeV*, A.S. Kirov, D.G. Sarantites, D.W. Stracener, J.L. Barreto, R.J. Charity, N.G. Nicolis, L.G. Sobotka, C. Baktash, D.C. Hensley, I.Y. Lee, M.L. Halbert, F. McGowan and D. Winchell, *Bull. Am. Phys. Soc.* **38**, 980(1993).
38. *Spin Distributions and the Decay of  $^{164}\text{Yb}^*$  Formed in Nearly Symmetric and Asymmetric Fusion Reactions*, N.G. Nicolis and D.G. Sarantites, *Bull. Am. Phys. Soc.* **38**, 1013(1993).
39. *The Decay of  $^{164}\text{Yb}^*$  Formed in Fusion Reactions Involving Asymmetric and Nearly Symmetric Entrance Channels*, N.G. Nicolis, J. Barreto, D.G. Sarantites, R.J. Charity, L.G. Sobotka, D.

- Stracener, D.C. Hensley, J.R. Beene, M.L. Halbert and C. Baktash, 206th National Meeting of the American Chemical Society. (0-8412-2620-2) Chicago, IL., Aug. 22-27, 1993. Paper 96.
40. *The Decay of  $^{164}\text{Yb}^*$  Formed in Fusion Reactions Involving Asymmetric and Nearly Symmetric Entrance Channels*, N.G. Nicolis, J. Barreto, D.G. Sarantites, R.J. Charity, L.G. Sobotka, D.W. Stracener, D.C. Hensley, J.R. Beene, M.L. Halbert, C. Baktash and M. Thoennessen, Proceedings of the 4th Hellenic Symposium on Nuclear Physics, October 1, 1993, The University of Ioannina, Ioannina, Greece, Eds. X.A. Aslanoglou, T.S. Kosmas and G. Pantis, p. 186.
  41. *Dynamics of symmetric and asymmetric heavy-ion fusion probed by expensive particle emission*, M. Korolija, R.J. Charity, N.G. Nicolis, D.G. Sarantites and L.G. Sobotka, Chem. and Eng. News, **72** (29) 104(1994).
  42. *Timing of near-last-chance nuclear decays by the "atomic clock" method*, L.G. Sobotka, L. Gallamore, D.G. Sarantites, R.J. Charity and N.G. Nicolis, Chem. and Eng. News, **72** (29) 104(1994).
  43. *Population patterns in  $^{82}\text{Sr}$  and stretched proton emission by total spectroscopy*, A.S. Kirov, N.G. Nicolis, D.G. Sarantites, L.G. Sobotka, D.W. Stracener, R.J. Charity and C. Baktash, Chem. and Eng. News, **72** (29) 104(1994).
  44. *Spin distributions and excitation functions in the subbarrier fusion of heavy ions*, N.G. Nicolis, Chem. and Eng. News, **72** (29) 104(1994).
  45. *The role of primary spin distributions in fusion-evaporation reactions of heavy ions*, N.G. Nicolis, Proceedings of the 7th Joint Conference of the Physics Society of Greece and Cyprus, April 4-7, 1996, Heraclion, Crete, Greece. Abstracts, p. 85. Book of Proceedings, pp. 97-101.
  46. *The Decay of  $^{160}\text{Er}^*$  in  $^{16}\text{O} + ^{144}\text{Nd}$  and  $^{64}\text{Ni} + ^{96}\text{Zr}$  fusion reactions*, N.G. Nicolis, J.L. Barreto, D.G. Sarantites, R.J. Charity, L.G. Sobotka, D.W. Stracener, D.C. Hensley, J.R. Beene, C. Baktash, M.L. Halbert, and M. Thoennessen, 7th Symposium of the Hellenic Nuclear Physics Society, May 24-25, 1996, Athens, Greece, Abstracts, pp. 37-38.
  47. *Empirical description of heavy-ion subbarrier fusion*, N.G. Nicolis, European Conference on Advances in Nuclear Physics and Related Areas, Thessaloniki, Greece, 8-12 July, 1997. Book of Abstracts, p. 98.
  48. *Alpha Particle Transmission Coefficients from a Global Optical Potential*, N.G. Nicolis and C.A. Papachristodoulou, International Conference on: Symmetries in Intermediate & High Energy Physics and Applications, September 30 - October 5, 1998, Ioannina, Greece.
  49. *Empirical description of heavy-ion subbarrier fusion*, N.G. Nicolis, 1999 Centennial Meeting of the American Physical Society, March 20-26, 1999, Atlanta, Georgia, U.S.A., Bull. Am. Phys. Soc. Vol.44, No.1, 259(1999).
  50. *Barrier parameters from fusion excitation functions of light reaction systems*, N.G. Nicolis and A. Varagis, 11th Symposium of Nuclear Physics of the Hellenic Nuclear Physics Society, June 9-10, 2000, Thessaloniki, Greece.
  51. *Radial collective energy of excited nuclear matter created in nucleus-nucleus collision at intermediate energy*, S. Kowalski, W. Zipper, T. Kozik, Z. Majka, P. Staszal, J. Cibor, R. Alfaro, K. Hagel, T. Keutgen, M. Lunardon, N. Marie, M. Murray, J.B. Natowitz, W. Shen, R. Wada, and N. G. Nicolis. International Workshop on Multifragmentation and Related Topics, Nov. 28 - Dec. 12. 2001, Catania, Italy.
  52. *Neutron-excess dependence of fusion barrier parameters*, N.G. Nicolis, 12th Symposium of the Hellenic Nuclear Physics Society, May 10-11, 2002, NCSR "Demokritos", Athens, Greece.
  53. *Statistical model calculations of the  $^{232}\text{Th}(n,2n)$  reaction*, D. Karamanis, S. Andriamonje, P.A. Assimakopoulos, G. Doukellis, D.A. Karademos, A. Karydas, M. Kokkoris, S. Kossionides, N.G. Nicolis, A. Pakou, C. Papachristodoulou, C. Papadopoulos, N. Patronis, P. Pavlopoulos, G. Perdikakis, and R. Vlastou, 12th Symposium of the Hellenic Nuclear Physics Society, May 10-11, 2002, NCSR "Demokritos", Athens, Greece.
  54. *Neutron cross section measurements in the Th-U cycle by the activation method*, D. Karamanis, S.

- Andriamonje, P.A. Assimakopoulos, G. Doukellis, D.A. Karademos, A. Karydas, M. Kokkoris, S. Kossionides, N.G. Nicolis, C. Papachristodoulou, C. Papadopoulos, N. Patronis, P. Pavlopoulos, G. Perdikakis, and R. Vlastou, 10th International Symposium on Radiation Measurements and Applications, Ann Arbor, Michigan, U.S.A., 21-23 May 2002.
55. *Neutron-excess in analytical expressions for fusion barrier parameters*, N.G. Nicolis, Philadelphia Meeting of the American Physical Society, April 5-8, 2003.
  56. *Influence of model assumptions on the radial flow investigation in heavy ion collisions*, T. Kozik, Z. Majka, R. Planeta, P.Staszal, A. Wolanin-Statek, S. Kowalski, W. Zipper, J. Cibor, E. Kozik, and N.G. Nicolis, 13<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, University of Ioannina, Ioannina, Greece. May 30-31, 2003.
  57. *Development of a Monte-Carlo evaporation code for multi-fragment emission*, N.G. Nicolis, 13<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, University of Ioannina, Ioannina, Greece. May 30-31, 2003.
  58. *Search for toroidal and bubble nuclei formed in the Au + Au reaction*, R. Planeta, J.Blicharska, J.Brzychczyk, J.Cibor, A. Grzeszczuk, P.Hachaj, S.Kowalski, Z.Majka, N.Nicolis, K.Schmidt and W.Zipper for the CHIMERA Collaboration. Proceedings of the *International Workshop on Multifragmentation and Related Topics*, GANIL, Caen, France, November 5-7, 2003.
  59. *Present status of the CHIMERA-ISOSPIN experiment*, G.Politi, M.Alderighi, F.Amorini, A.Anzalone, N.Arena, L.Auditore, V.Baran, R.Barnà, I.Berceanu, J.Blicharska, A.Bonasera, B.Borderie, R.Bougault, J.Briczycnski, M.Bruno, G.Cardella, Sl.Cavallaro, M.B.Chatterjee, A.Chbihi, J.Cibor, M.Colonna, M.D'Agostino, R.Dayras, E.DeFilippo, M.Di Toro, D.DePasquale, E.Fuschini, W.Gawlikowicz, E.Geraci, F.Giustolisi, A.Grzeszczuk, P.Guazzoni, D.Guinet, M.IaconoManno, S.Kowalski, E.LaGuidara, G.Lanzalone, G.Lanzanò, N.LeNeindre, S.Li, S.Io Nigro, C.Maiolino, Z.Majka, N.G.Nicolis, A.Pagano, M.Papa, M.Petrovici, E.Piasecki, S.Pirrone, R.Planeta, A.Pop, F.Porto, M.F.Rivet, E.Rosato, F. Rizzo, S.Russo, P.Russotto, M.Sassi, G.Sechi, K.Siwiek-Wilczynska, I.Skwira, M.L.Sperduto, L.Swidorski, A.Trifirò, M.Trimarchi, G.Vannini, M.Vigilante, J.P.Wieleczko, J.Wilczynski, H.Wu, Z.Xiao, L.Zetta, and W.Zipper, Proceedings of the *International Workshop on Multifragmentation and Related Topics*, GANIL, Caen, France, November 5-7, 2003.
  60. *Influence of neutron excess in the fusion barrier radii of heavy-ions*, N.G. Nicolis, 10<sup>th</sup> Hellenic Physics Conference of the Physics Society of Greece, Loutraki, Greece, Jan. 28 – Feb. 1, 2004.
  61. *Simulation of fragment correlations in the disintegration of non-compact nuclear configurations*, N.G. Nicolis, 14<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, National Technical University of Athens, Athens, May 21-22, 2004.
  62. *Exclusive breakup of  ${}^6\text{Li}$  on a  ${}^{28}\text{Si}$  target at near-barrier energies*, A. Pakou, N. Patronis, N. Alamanos, G. Doukelis, G. Kalyva, M. Kokkoris, S. Kosionides, A. Lagogiannis, A. Musumarra, N.G. Nicolis, G. Perdikakis, D. Pierroutsakou, E.C. Pollacco, K. Rusek and Ch. Zarkadas, 14<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, National Technical University of Athens, Athens, May 21-22, 2004.
  63. *Sequential binary decay of highly excited  ${}^{40}\text{Ar}^*$* , N.G. Nicolis, 15<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, Aristotle University of Thessaloniki, Thessaloniki, Greece, May 27-28, 2005.
  64. *Total reaction cross section for  ${}^6\text{Li} + {}^{28}\text{Si}$  at barrier energies – A new technique*, A. Pakou, A. Musumarra, N.G. Nicolis, D. Pierroutsakou, N. Alamanos, N. Divis, G. Doukelis, S. Harissopoulos, G. Kalyva, A. Lagoyannis, T. Mertzimekis, G. Perdikakis, D. Roubos, K. Rusek, S. Spyrou, and Ch. Zarkadas, 15<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, Aristotle University of Thessaloniki, Thessaloniki, Greece, May 27-28, 2005.
  65. *Search for exotic systems formed in nuclear reactions with heavy ions*, A.Sochocka, F.Amorini, L.Auditore, J. Blicharska, J.Brzychczyk, G.Cardella, S.Cavallaro, A. Grzeszczuk, P. Hachaj, S. Kowalski, E.LaGuidara, G.Lanzalone, Z.Majka, N.G.Nicolis, A.Pagano, M.Papa, S. Pirrone, R. Planeta, F. Rizzo, P.Russotto, M.Sassi, K.Schmidt, Z. Starypan, A.Trifiro, M.Trimarchi, and

- W.Zipper, p. 219, Proceedings of the International Conference on Multifragmentation and Related Topics, Nov. 28 - Dec. 1, 2005, Catania, Italy. Edited by R. Bougault, A. Pagano, S. Pirrone, M.F. Rivet and F. Rizzo, Societa Italiana di Fisica, (2006) ISBN 88-7438-029-1.
66. *A study of  $^{197}\text{Au} + ^{197}\text{Au}$  collisions at 15 MeV/nucleon with the CHIMERA multi-detector*, I. Skwira-Chalot, K. Siwek-Wilczynska, J. Wilczynski, F. Amorini, A. Anzalone, L. Auditore, V. Baran, J. Brzychczyk, G. Cardella, S. Cavallaro, M.B. Chatterjee, M. Colonna, E. De Filippo, M. Di Toro, W. Gawlikowicz, A. Grzeszczuk, P. Guazzoni, S. Kowalski, E. La Guidara, G. Lanzano, G. Lanzalone, C. Maiolino, Z. Majka, N.G. Nicolis, A. Pagano, M. Papa, E. Piasecki, S. Pirrone, R. Planeta, G. Politi, F. Porto, F. Rizzo, P. Russotto, K. Schmidt, A. Sochocka, L. Swiderski, A. Trifiro, M. Trimarchi, J.P. Wieleczko, L. Zetta, and W. Zipper, p. 25, Proceedings of the (IWM2005) International Conference on Multifragmentation and Related Topics, Nov. 28 - Dec. 1, 2005, Catania, Italy. Edited by R. Bougault, A. Pagano, S. Pirrone, M.F. Rivet and F. Rizzo, Societa Italiana di Fisica, (2006) ISBN 88-7438-029-1.
  67. *Isospin Effects in Neutron-rich and Neutron-poor Sn+Ni Systems*, R.Planeta, F.Amorini, A.Anzalone, L.Auditore, V.Baran, I.Berceanu, J.Blicharska, J.Brzychczyk, B.Borderie, R.Bougault, M.Bruno, G.Cardella, S.Cavallaro, M.B.Chatterjee, A.Chbihi, M.Colonna, M.D'Agostino, E.DeFilippo, R.Dayras, M.DiToro, J.Frankland, E.Galichet, W.Gawlikowicz, E.Geraci, F.Giustolisi, A.Grzeszczuk, P.Guazzoni, D.Guinet, M.Iacono-Manno, S.Kowalski, E. LaGuidara, G.Lanzano, G.Lanzalone, J.Lukasik, C.Maiolino, Z.Majka, N.LeNeindre, N.G.Nicolis, A.Pagano, M.Papa, M.Petrovici, E.Piasecki, S.Pirrone, G.Politi, A.Pop, F.Porto, M.F.Rivet, E.Rosato, F.Rizzo, S.Russo, P.Russotto, M.Sassi, K.Schmidt, K.Siwek-Wilczynska, I.Skwira-Chalot, A.Sochocka, M.L.Sperduto, Z.Starypan, L.Swiderski, A.Trifiro, M.Trimarchi, G.Vannini, G.Verde, M.Vigilante, J.P.Wieleczko, J.Wilczynski, L.Zetta, and W.Zipper, p. 183, Proceedings of the (IWM2005) International Conference on Multifragmentation and Related Topics, Nov. 28 - Dec. 1, 2005, Catania, Italy. Edited by R. Bougault, A. Pagano, S. Pirrone, M.F. Rivet and F. Rizzo, Societa Italiana di Fisica, (2006) ISBN 88-7438-029-1.
  68. *Recent progress in studying the dynamical fragment production with CHIMERA*, P.Russotto, F. Amorini, A. Anzalone, L. Auditore, V. Baran, I. Berceanu, J. Blicharska, J. Brzychczyk, B. Borderie, R. Bougault, M. Bruno, G. Cardella, S. Cavallaro, R. Coniglione, M.B. Chatterjee, A. Chbihi, M. Colonna, M. D'Agostino, R. Dayras, E. De Filippo, M. Di Toro, J. Frankland, E. Galichet, W. Gawlikowicz, E. Geraci, F. Giustolisi, A. Grzeszczuk, P. Guazzoni, D. Guinet, M. Iacono-Manno, S. Kowalski, E. La Guidara, G. Lanzalone, G. Lanzano, C. Maiolino, Z. Majka, N. LeNeindre, N.G. Nicolis, A. Pagano, M. Papa, M. Petrovici, E. Piasecki, S. Pirrone, R. Planeta, G. Politi, A. Pop, F. Porto, M.F. Rivet, E. Rosato, F. Rizzo, S. Russo, M. Sassi, K. Schmidt, K. Siwek-Wilczynska, I. Skwira, M.L. Sperduto, A. Sochocka, L. Swiderski, A. Trifiro, M. Trimarchi, G. Vannini, M. Vigilante, J.P. Wieleczko, J. Wilczynski, L. Zetta and W. Zipper, p.13, Proceedings of the (IWM2005) International Conference on Multifragmentation and Related Topics, Nov. 28 - Dec. 1, 2005, Catania, Italy. Edited by R. Bougault, A. Pagano, S. Pirrone, M.F. Rivet and F. Rizzo, Societa Italiana di Fisica, (2006) ISBN 88-7438-029-1.
  69. *Unified description of fusion and evaporation in the decay of light and medium mass compound nuclei*, N.G. Nicolis, 11<sup>th</sup> Panhellenic Conference of the Hellenic Physics Society, March 30 – April 2, 2006, Larisa, Greece.
  70. *Sequential binary decay of light nuclear systems: An assessment of statistical model codes*, N.G. Nicolis, 16<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, May 26-27, 2006. University of Athens, Athens, Greece.
  71. *Search for hyperheavy toroidal structures formed in heavy-ion collisions*, A. Sochocka, A. Benisz, P. Hachaj, N.G.Nicolis, R.Planeta and Z. Starypan, Fourth International Workshop on Multifragmentation and Related Topics (IWM2007), GANIL, France, November 4<sup>th</sup>-7<sup>th</sup>, 2007.
  72. *Present and future activity with the CHIMERA  $4\pi$  detector*, G.Cardella, C. Agodi, F.Amorini, A.Anzalone, N.Arena, L.Auditore, R.Barna, A.Benisz, I.Berceanu, S.Cavallaro, E.De Filippo,

- U.Emanuele, W.Gawlikowicz, L.Grassi, G.Giuliani, A.Grzeszczuk, P.Guazzoni, S.Kowalski, E.La Guidara, G.Lanzalone, I.Lombardo, S.Lo Nigro, D.Loria, C.Maiolino, N.G.Nicolis, A.Pagano, M.Papa, I.Pawelczak, M.Petrovici, S.Pirrone, E. Piasecki, S. Pirrone, R.Planeta, G.Politi, A.Pop, F.Porto, F.Previdi, M.Quinlan, F.Rizzo, E.Rosato, P.Russotto, W. U.Schroder, I.Skwira-Chalot, V. Sopala, K.Siwiek-Wilczynska, K.Schmidt, M.L. Sperduto, A.Sochocka, M. Stiro, L.Swidorski, A.Trifiro, M.Trimarchi, J.Toke, G.Verde, M.Vigilante, J.Wilczynski, L.Zetta and W.Zipper, p. 21, Proceedings of the (IWM2007) International workshop on multifragmentation and related topics, 4-7 November 2007, Caen, France. Edited by B.Borderie, J. Frankland, A. Pagano, S. Pirrone and F. Rizzo, Societa Italiana di Fisica, (2008). ISBN 978-88-7438-042-8.
73. *Investigation of the isospin dependences in Sn+Ni and Sn+Al systems*, K. Schmidt, C. Agodi, F.Amorini, A.Anzalone, L.Auditore, V. Baran, A.Benisz, I.Berceanu, A. Bonasera, B. Borderie, J.Borgensztajn, R. Bougault, M. Bruno, J. Brzychczyk, G.Cardella, S.Cavallaro, R. Coniglione, M.B. Chatterjee, A. Chbihi, M. Colonna, M.D' Agostino, R. Dayras, E.De Filippo, M. Di Toro, J. Frankland, E. Galichet, W.Gawlikowicz, E. Geraci, G.Giuliani, F. Giustolisi, A.Grzeszczuk, P.Guazzoni, D. Guinet, S.Kowalski, E.La Guidara, G. Lanzalone, N. Le Neindre, J. Lukasik, C.Maiolino, Z. Majka, N.G.Nicolis, A.Pagano, M.Papa, M. Petrovici, S.Pirrone, E. Piasecki, S. Pirrone, R.Planeta, G.Politi, A.Pop, F.Porto, M.F. Rivet, F.Rizzo, E.Rosato, S. Russo, P.Russotto, I.Skwira-Chalot, K.Siwiek-Wilczynska, A.Sochocka, L. Swiderski, A.Trifiro, M.Trimarchi, G. Vannini, M. Vigilante, J. Wieleczko, J.Wilczynski, L.Zetta and W.Zipper, p. 241, Proceedings of the (IWM2007) International workshop on multifragmentation and related topics, 4-7 November 2007, Caen, France. Edited by B.Borderie, J. Frankland, A. Pagano, S. Pirrone and F. Rizzo, Societa Italiana di Fisica, (2008). ISBN 978-88-7438-042-8.
74. *Fast ternary fission of  $^{197}\text{Au} + ^{197}\text{Au}$  system at 15 MeV/nucleon*, I.Skwira-Chalot, J.Wilczynski, F.Amorini, A.Anzalone, L.Auditore, V. Baran, J. Brzychczyk, G. Cardella, S. Cavallaro, M.B. Chatterjee, M. Colonna, E.De Filippo, M. Di Toro, W.Gawlikowicz, A.Grzeszczuk, P.Guazzoni, S.Kowalski, E.La Guidara, G. Lanzano, G. Lanzalone, J. Lukasik, C. Maiolino, Z. Majka, N.G.Nicolis, A.Pagano, M.Papa, E. Piasecki, S. Pirrone, R.Planeta, G. Politi, F. Porto, F. Rizzo, P.Russotto, K. Schmidt, A.Sochocka, L. Swiderski, A.Trifiro, M.Trimarchi, J. Wieleczko, L.Zetta and W.Zipper, p. 247, Proceedings of the (IWM2007) International workshop on multifragmentation and related topics, 4-7 November 2007, Caen, France. Edited by B.Borderie, J. Frankland, A. Pagano, S. Pirrone and F. Rizzo, Societa Italiana di Fisica, (2008). ISBN 978-88-7438-042-8.
75. *Search for toroidal nuclei formed in heavy-ion collisions*, A. Sochocka, A. Benisz, P. Hachaj, N.G. Nicolis, R. Planeta and Z. Strypan, p. 345, Proceedings of the (IWM2007) International workshop on multifragmentation and related topics, 4-7 November 2007, Caen, France. Edited by B.Borderie, J. Frankland, A. Pagano, S. Pirrone and F. Rizzo, Societa Italiana di Fisica, (2008). ISBN 978-88-7438-042-8.
76. *Strong transfer channels for reactions with weakly bound projectiles at near and sub-barrier energies and implications to fusion*, A.Pakou, K. Rusek, N. Alamanos, X. Aslanoglou, M. Kokkoris, A. Lagoyannis, V. Lapoux, T.J. Mertzimekis, A. Musumarra, N.G. Nicolis, D. Pieroutsakou and D. Roubos, 17<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, May 30-31, 2008, University of Ioannina, Ioannina, Greece.
77. *Search for exotic nuclear disintegration configurations in heavy-ion collisions*, A. Sochocka, A. Benisz, P. Hachaj, N.G.Nicolis, R.Planeta and Z. Strypan, 17<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, May 30-31, 2008, University of Ioannina, Ioannina, Greece.
78. *Analysis of elastic backscattering and fusion data for  $^{6,7}\text{Li} + ^{28}\text{Si}$  at sub- and near-barrier energies: Probing the nuclear potential anomaly of weakly bound nuclei*, N. Patronis, K. Zerva, A. Pakou, N. Alamanos, X. Aslanoglou, D. Filipescu, T. Glodariu, M. Kokkoris, M. La Commara, A. Lagoyannis, M. Mazzocco, N.G. Nicolis, D. Pieroutsakou, M. Romoli and K. Rusek, 18<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, NSCR "Demokritos", 29-30 May, 2009.



79. *Elastic backscattering measurements for  $^{6,7}\text{Li}+^{28}\text{Si}$  at sub- and near-barrier energies*, K. Zerva, N. Patronis, A. Pakou, N. Alamanos, X. Aslanoglou, D. Filipescu, T. Glodariu, M. Kokkoris, M. La Commara, A. Lagoyannis, M. Mazzocco, N.G. Nicolis, D. Pieroutsakou, M. Romoli and K. Rusek, 18<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, NSCR “Demokritos”, 29-30 May, 2009.
80. *Isospin Effects in Heavy-Ion Collisions: Some Results From CHIMERA Experiments At LNS And Perspectives With Radioactive Beams*, G.Cardella, F.Amorini, A.Anzalone, N.Arena, L.Auditore, R.Barna, A.Benisz, I.Berceanu, M.B.Chatterjee, S.Cavallaro, E.De Filippo, U. Emanuele, W.Gawlikowicz, E. Geraci, L.Grassi, G.Giuliani, A.Grzeszczuk, P.Guazzoni, S.Kowalski, E.La Guidara, G.Lanzalone, I.Lombardo, S.Lo Nigro, D.Loria, C.Maiolino, N.G.Nicolis, A.Pagano, M.Papa, I.Pawelczak, M.Petrovici, S.Pirrone, R.Planeta, G.Politi, A.Pop, F.Porto, F.Previdi, M.Quinlan, F.Rizzo, E.Rosato, P.Russotto, W. U.Schroder, I.Skwira-Chalot, K.Siwiek-Wilczynska, K.Schmidt, A.Sochocka, L.Swidorski, A.Trifiro, M.Trimarchi, J.Toke, G.Verde, M.Vigilante, J.Wilczynski, L.Zetta and W.Zipper, *Proceedings of the 6th Japan-Italy Symposium on Heavy-Ion Physics; Perspective in Nuclear Physics*, Tokai, Japan, 11-15 November 2008, Edited by S.-C. Jeong, H. Miyatake, Y. Utsuno, H. Ikezoe, T. Motobayashi and A.Bracco, American Institute of Physics Conf. Proc. p.38, 1120 (2009). ISBN 978-07354-0655-1/09/.
81. *Is recognition of toroidal nuclear structures possible in Au + Au collisions at 23 MeV/nucleon?*, R. Planeta, A. Bubak, A. Grzeszczuk, S. Kowalski, T. Kozik, Z. Majka, N.G. Nicolis, E. Piasecki, K.Siwiek-Wilczyńska, I. Skwira-Chalot, A. Sochocka, J. Wilczyński and W. Zipper, Proceedings of the International Conference on Multifragmentation and Related Topics, Catania, Italy, November 4-7, 2009.
82. *Isotopic distributions in  $^{40}\text{Ar}$  projectile fragmentation*, N.G. Nicolis, 19<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, Aristotle University of Thessaloniki, Thessaloniki, Greece, May 28-29, 2010.
83. *Global characteristics of  $^{197}\text{Au} + ^{197}\text{Au}$  collisions at 23 A MeV*, R. Najman, R. Planeta, A. Sochocka, F. Amorini, L. Auditore, A. Bubak, T. Cap, G. Cardella, E. De Filippo, E.Geraci, L. Grassi, A. Grzeszczuk, E. La Guidara, J. Han, D. Loria, S. Kowalski, T. Kozik, G. Lanzalone, I. Lombardo, Z. Majka, N. G. Nicolis, A. Pagano, E. Piasecki, S. Pirrone, G. Politi, F. Rizzo, P. Russotto, K. Siwiek-Wilczynska, I. Skwira-Chalot, A. Trifiro, M. Trimarchi, J. Wilczynski, G. Verde and W. Zipper, Proceedings of the (IWM2011) International Workshop on Multifragmentation and Related Topics, Caen (France), 2-5 November 2011.
84. *Population of isomeric states in neutron-induced reactions on  $^{197}\text{Au}$* , N.G. Nicolis, R. Vlastou, C.T. Papadopoulos, M. Kokkoris and M. Diakaki, 21st Symposium of the Hellenic Nuclear Physics Society, National Centre for Scientific Research "Demokritos", Athens, May 25-26, 2012.
85. *Characteristics of the fragment production in  $^{197}\text{Au}+^{197}\text{Au}$  reaction at 23 A MeV*, R.Najman, F.Amorini, L.Auditore, A.Bubak, T.Cap, G.Cardella, E. De Filippo, E.Geraci, L.Grassi, A.Grzeszczuk, E.La Guidara, J.Han, D.Ioria, S.Kowalski, T.Kozik, G.Lanzalone, I.Lombardo, Z.Majka, N.G.Nicolis, A.Pagano, E.Piasecki, S.Pirrone, R.Planeta, G.Politi, F.Rizzo, P.Russotto, K.Siwiek-Wilczyńska, I.Skwira-Chalot, A.Sochocka, A.Trifirò, M.Trimarchi, J.Wilczyński, G.Verde, W.Zipper, 47th Zakopane Conference on Nuclear Physics, Zakopane, Poland, Aug. 27 - Sept. 2, 2012.
86. *Measurement of the  $^{237}\text{Np}(n,f)$  cross section with the MicroMegas detector*, M. Diakaki, M. Kokkoris, A. Kyrtos, N.G. Nicolis, E. Skordis, R. Vlastou, S. Andriamonje, E. Berthoumieux and A. Lagoyannis, International Conference on Nuclear Data for Science and Technology, New York, U.S.A., March 4-8, 2013.
87. *New measurements of the  $^{241}\text{Am}(n,2n)^{240}\text{Am}$  cross section*, A. Kalamara, M. Diakaki, R. Vlastou, M. Kokkoris, N.Nicolis, A. Tsinganis, S. Ashley, M.Axiotis and A. Lagoyannis, International Conference on Nuclear Data for Science and Technology, New York, U.S.A., March 4-8, 2013.
88. *New high energy neutron facility at NCSR “Demokritos”*,

- M. Anastasiou, A. Kalamara, M. Diakaki, R. Vlastou, M. Kokkoris, V. Paneta, M. Axiotis, A. Lagoyannis, N. Nikolis and M. Serris,  
22<sup>nd</sup> Symposium of the Hellenic Nuclear Physics Society, The School of Science, University of Athens, May 31 and June 1, 2013.
89. *Measurement of the  $^{241}\text{Am}(n,2n)^{240}\text{Am}$  cross section at 17.5 MeV*,  
A. Kalamara, M. Diakaki, R. Vlastou, M. Kokkoris, M. Anastasiou, V. Paneta, M. Axiotis, A. Lagoyannis and N. Nikolis,  
22<sup>nd</sup> Symposium of the Hellenic Nuclear Physics Society, The School of Science, University of Athens, May 31 and June 1, 2013.
  90. *Polar-side emission of heavy IMFs in  $^{197}\text{Au} + ^{197}\text{Au}$  collisions at 23A MeV*,  
T. Cap, K. Siwek-Wilczynska, I. Skwira-Chalot, J. Wilczynski, F. Amorini, L. Audatore, G. Cardella, E. De Filippo, E. Geraci, L. Grassi, A. Grzeszczuk, E. La Guidara, J. Han, T. Kozik, G. Lanzalone, I. Lombardo, R. Najman, N. G. Nicolis, A. Pagano, M. Papa, E. Piasecki, S. Pirrone, R. Planeta, G. Politi, F. Rizzo, P. Russotto, A. Trifiro, M. Trimarchi, G. Verde, and W. Zipper,  
Proceedings of (IWM-EC 2014) International Workshop on Multi-facets of EoS and Clustering, May 6-9, 2014, Catania, Italy.
  91. *Fission in high-energy proton-induced spallation reactions*, N.G. Nicolis, A. Assimakopoulou and G. Souliotis, 4th Workshop of the Hellenic Institute of Nuclear Physics on New Aspects and Perspectives in Nuclear Physics, Ioannina 5-6 May, 2017. (<http://hinp.physics.uoi.gr/>)
  92. *Spallation reactions of 0.1-1.0 GeV protons on  $^{208}\text{Pb}$* , N.G. Nicolis, A. Assimakopoulou and G. Souliotis, Presented at the 26th Annual Symposium of the Hellenic Nuclear Physics Society, 9-10 June, 2017, Anavyssos, Greece. (Proceedings at <http://hnps2017.hcmr.gr/> and <http://radium.phys.uoa.gr/HNPS/>)
  93. *Spallation of  $^{56}\text{Fe}$  by 1 GeV protons*, N.G. Nicolis, G. Souliotis and A. Assimakopoulou, 27<sup>th</sup> Annual Symposium of the Hellenic Nuclear Physics Society, National and Kapodistrian University of Athens, June 8-9, 2018, Athens, Greece (<http://radium.phys.uoa.gr/HNPS2018/>)
  94. *Competition between the dynamical and sequential reaction channels in the  $^{197}\text{Au} + ^{197}\text{Au}$  collisions at the bombarding energy of 23A MeV*, T. Cap, K. Siwek-Wilczynska, J. Wilczynski, F. Amorini, L. Audatore, G. Cardella, E. De Filippo, E. Geraci, L. Grassi, A. Grzeszczuk, E. La Guidara, J. Han, T. Kozik, G. Lanzalone, I. Lombardo, R. Najman, N. G. Nicolis, A. Pagano, M. Papa, E. Piasecki, S. Pirrone, R. Planeta, G. Politi, F. Rizzoc, P. Russotto, I. Skwira-Chalot, A. Trifiro, M. Trimarchi, G. Verde, W. Zipper, Presented at The 53rd Zakopane Conference on Nuclear Physics (2018).
  95. *Production of Isotopes of medical interest in  $p + ^{nat}\text{Mo}$  reactions*, Despoina Armaanidou, N.G. Nicolis and G.A. Souliotis, Poster presented at the 28th Annual Conference of the Hellenic Nuclear Physics Society, 31 May - 1 June 2019, Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece.
  96. *Isotope production in 1-200 MeV  $p + ^{54-58}\text{Fe}$  reactions*, Ioannis S. Despoudis, N.G. Nicolis and G.A. Souliotis, Poster presented at the 28th Annual Conference of the Hellenic Nuclear Physics Society, 31 May - 1 June 2019, Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece.
  97. *Proton-Induced Spallation Reactions on Fe targets*, Z. Tsagkala, N.G. Nicolis and G.A. Souliotis, Poster presented at the 28th Annual Conference of the Hellenic Nuclear Physics Society, 31 May - 1 June 2019, Department of Physics, Aristotle University of Thessaloniki, Thessaloniki, Greece.
  98. *Two-stage description of charge distributions in  $56\text{Fe}+p$  spallation reactions at 0.3-1.5 GeV/A*, N.G. Nicolis, G.A. Souliotis and A. Bonasera, HINPw6 – Hellenic Institute of Nuclear Physics; 6th International Workshop; Perspectives on Nuclear Physics; From Fundamentals to Applications, Virtual Conference, May 14-16, 2021 <https://doi.org/10.1051/epjconf/202125207001>
  99. Nicolis, N. G., Katsigianni, T.-I., Korakas, K., Miliadou, A., & Tasioudis, D. (2022). *Validation of Empirical Formulas for Spallation Residue Production in 0.3A-1.5A GeV  $56\text{Fe}+p$  Reactions*. *HNPS Advances in Nuclear Physics*, 28, 129–134. <https://doi.org/10.12681/hnps.3619>

100. Korakas, K., Miliadou, A., Katsigianni, T.-I., Tasioudis, D., & Nicolis, N. G. (2022). *Empirical Description of Isotope Production in 0.01-2.5GeV p+natFe Reactions*. *HNPS Advances in Nuclear Physics*, 28, 224–227. <https://doi.org/10.12681/hnps.3620>
101. Nicolis, N. G., & Chatzikotelis, A. (2023). Development of a simple algorithm for pre-fragment formation in proton-nucleus spallation reactions. *HNPS Advances in Nuclear Physics*, 29, 196–199. <https://doi.org/10.12681/hnpsanp.5084>
102. Nicolis, N. G., & Tsitsis, G.-R. (2023). A study of the reaction  $^{55}\text{Mn}(p,4n)^{52}\text{Fe}$ : excitation function and medical applications. *HNPS Advances in Nuclear Physics*, 29, 200–203. <https://doi.org/10.12681/hnpsanp.5085>
103. Nicolis, N. G., & Zafeiri, G. (2023). A study of proton-induced reactions on natural Silicon targets. *HNPS Advances in Nuclear Physics*, 29, 204–207. <https://doi.org/10.12681/hnpsanp.5086>
104. Chatziioanidis, P., & Nicolis, N. (2024). Monte-Carlo calculations of evaporation and fission in excited spallation reaction fragments. *HNPS Advances in Nuclear Physics*, 30, 233–236. <https://doi.org/10.12681/hnpsanp.6200>

## INTERDISCIPLINARY PUBLICATIONS – EDITORIALS

### Conference proceedings

1. *The role of Platonic and Archimedean solids in the design of multidetector systems in nuclear physics*, N.G. Nicolis, Proceedings of the 8<sup>th</sup> Joint Conference of the Physics Society of Greece and Cyprus, January 17-19, 2003, Kalamata, Greece.
2. *Polyhedral designs of detection systems for nuclear physics studies*, N.G. Nicolis, Joint Meeting of ISAMA 2003 and the 6<sup>th</sup> Annual BRIDGES Conference, University of Granada, Spain, July 23-25, 2003, Proceedings pp. 219-228.
3. *Geometry of Polyhedra and Nuclear Physics*, Nikolaos G. Nicolis, 1<sup>st</sup> International Interdisciplinary Conference “Science and Arts”, June 16-19, 2005, Eugenides Planetarium, Athens.
4. *Equilibrium configurations of a system of point charges in the interior of a disk*, N.G. Nicolis, Proceedings of the 10<sup>th</sup> Joint Conference of the Physics Society of Greece and Cyprus, March 1-4, 2007, Corfu, Greece.
5. *Electrostatic Patterns in the Interior of a Circular Region*, N.G. Nicolis, Proceedings of the BRIDGES 2007 Conference, San Sebastian, Spain, July 24-27, 2007, pp.169-176.

### Editorials

1. “Einstein and the Atomic Bomb”, *Eleftherotypia* Newspaper, (E-Ιστορικά), May 20, 2004.
2. “Einstein and the Photoelectric Effect”, *Eleftherotypia* Newspaper, (E-Ιστορικά), October 6, 2005.
3. “The Physics Works of Galileo”, *Eleftherotypia* Newspaper, (E-Ιστορικά), February 2, 2006.
4. “The Discovery of Radium and Polonium by the Curie Couple”, *Eleftherotypia* Newspaper, (E-Ιστορικά), April 20, 2006.
5. “The principles of Mechanics and Newton’s Optics”, *Eleftherotypia* Newspaper, (E-Ιστορικά), June 22, 2006.

## SEMINARS ON EDUCATION

- *Innovations in the content and teaching methods of physical sciences in the secondary education*, Panteion University of Social and Political Sciences, March 31, 2013.

## INVITED SEMINARS

- *Proton-induced Spallation Reactions on Light nuclei*, Presented at the 2018 hinp Student Seminar series, Department of Physics, The University of Ioannina, November 5, 2018. (<https://www.youtube.com/watch?v=fqx1JVDYaxE&t=38s> )
- *Proton-induced Spallation Reactions on Light and Heavy non-fissile nuclei*, Department of Physics, The University of Ioannina, March 12, 2018.
- *Proton-induced Spallation Reactions on Light and Heavy non-fissile nuclei*, Laboratory of Physical Chemistry, Department of Chemistry, University of Athens, November 14, 2017.
- *Internet and Society*, Panhellenic Conference of the Hellenic History Society, Aristotle University of Thessaloniki, Thessaloniki, Greece, May 28-29, 2010.
- *Regular Polygons, Polyhedra and Electrostatics*, 2<sup>nd</sup> International Conference: Science and Art 2008. Sponsored by the Hellenic Physics Society, Technopolis (Gazi), January 16-19, 2008.
- *Geometry of Polyhedra: Connections between Science and Arts*, “ΑΘΗΝΑΪΣ” Cultural Center, Athens, June 17, 2006.
- *Unified description of fusion and evaporation in the decay of light and medium mass compound nuclei*, N.G. Nicolis, 11<sup>th</sup> Panhellenic Conference of the Hellenic Physics Society, March 30 – April 2, 2006, Larisa, Greece.
- *Geometry of Polyhedra and Nuclear Physics*, Symposium of the Hellenic Physics Society, “Science and Arts: Influence of Physical Sciences in Conjectural Arts”, October 7-8, Leukada, Greece.
- *Statistical Sequential Binary Decay of the Highly Excited Nucleus  $^{40}\text{Ar}^*$* , Institute of Physics, Jagiellonian University, Krakow, Poland (September 20, 2005).
- *Development of a Statistical Model Code for Intermediate Mass Fragment Emission*, Institute of Physics, Jagiellonian University, Krakow, Poland (September 28, 2004).
- *Searching for “bubble nuclei”*, Meeting of the Hellenic Physics Society (Great Moments of Physics: Recent Developments in Physics and their Influence to Society), June 28, 2004, Piraeus, Greece.
- *Search for non-compact nuclear configurations in heavy ion collisions*, Physics Department Seminar, The University of Ioannina, May 5, 2004.
- *Phenomenological Aspects of Heavy-Ion Fusion and Interaction Barrier Parameters*, Institute of Physics, Jagiellonian University, Krakow, Poland (May 16, 2000).
- *What can we learn from particle emission from highly excited compound nuclei?* Physics Department Seminar, The University of Ioannina, May 1995.
- *Spin Distributions and Excitation Functions in Subbarrier Fusion of Heavy Ions*, 206th National Meeting of the American Chemical Society. "Symposium on Nuclear Structure Research with the New Arrays and Detectors". Chicago, IL, U.S.A. (Aug. 22-27, 1993).
- *Particle Emission from Highly Excited Compound Nuclei: Penetrabilities and Level Densities*, Grand Accélérateur National D'ions Lourds Laboratoire, Caen, France. (Aug. 25, 1992).
- *Angular Momentum Transfer to Medium Mass Evaporation Residues*, Department of Physics, State University of New York at Stony Brook. (Nov. 28, 1985).

## BOOKS

- *Introduction to Nuclear Reactions*, Nikolaos G. Nicolis, Kallipos Academic Editions (2024) (<https://repository.kallipos.gr/handle/11419/13498>)
- The equilibrium decay stage in proton-induced spallation reactions, Nikolaos G. Nicolis in *Multifragmentation in Heavy-Ion Reactions: Theory and Experiments*, Chapter 16, Edited by Rajeev K. Puri, Yu-Gang Ma, and Arun Sharma, Copyright © 2023 Jenny Stanford Publishing Pte.Ltd. <https://www.taylorfrancis.com/books/edit/10.1201/9781003385134/multifragmentation-heavy-ion-reactions-rajeev-puri-arun-sharma-yu-gang-ma>
- *Introduction to Nuclear Reactions*, G.R. Satchler, Second Edition, MacMillan Education LTD (1990). A Greek Translation by N.G. Nicolis. Pelekanos Editions (1999).
- *Concepts of Modern Physics*, A. Beiser, McGraw-Hill, 1995. A Greek translation by A. Pakou and N.G. Nicolis, Gutenberg Editions (τυποθητω), Athens (2000).
- *Proceedings of the 9<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society*, September 30 – October 5, 1998, Ioannina. T. Kosmas and N.G. Nicolis (Editors). A University of Ioannina Edition (September 2001).
- *Proceedings of the 17<sup>th</sup> Symposium of the Hellenic Nuclear Physics Society, May 30-31, 2008*, Ioannina. A. Pakou, T.S. Kosmas and N.G. Nicolis (Editors).

## LECTURE NOTES AND PRESENTATIONS

- Electricity and Magnetism
  - <http://ecourse.uoi.gr/course/view.php?id=1219>
- Modern Physics: Introduction to the Special Theory of Relativity
  - <http://ecourse.uoi.gr/course/view.php?id=1375>
- Nuclear Physics II – Introduction to Nuclear Reactions
  - <http://ecourse.uoi.gr/course/view.php?id=1410>