

## CURRICULUM VITA

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BIRTHDATE AND PLACE: March 10, 1956, Athens, Greece

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WORK ADDRESS:

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### 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 AFFILIATIONS:

- The American Physical Society, Nuclear Physics Division.
- Physical Review C Referee.
- The New York Academy of Sciences.
- Hellenic Nuclear Physics Society.
- Hellenic Physics Society.

### PROFESSIONAL APPOINTMENTS:

**May 1994 - Present:** Assistant Professor, Department of Physics, University of Ioannina, Ioannina, Greece.

**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,

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University of Rochester, Rochester, N.Y., U.S.A.

OTHER APPOINTMENTS:

**May 2006 – May 2008:** Vice-President of the Hellenic Nuclear Physics Society.

**May 2006:** President of the Hellenic Nuclear Physics Society.

RESEARCH INTERESTS:

Decay of excited nuclei by the emission of complex fragments, nucleons and gamma rays. The statistical model of nuclear reactions. Monte-Carlo simulations of compound nuclear reactions. Heavy-ion fusion.

RESEARCH COLLABORATIONS:

- School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece.
- Collaboration with the Institute of Physics, Jagellonian University, Krakow, Poland, in connection with the CHIMERA collaboration at LNS, Catania, Italy.

GRANT HISTORY AS A PRINCIPAL INVESTIGATOR:

- Travel grants from the Ministry of Education and Religious Affairs of Greece for the academic years: 2014-15, 2012-13, 2009-10, 2007-08, 2005-06, 2001-02. (Collaboration with the Institute of Physics, Jagellonian University, Krakow, Poland.)
- Simulations of Particle Emission from Highly Excited Nuclei. '95', No. 696. General Secretariate for Research and Technology, Ministry of Industry, Research and Technology of Greece. Duration: July 1996 - July 1998.

COURSES TAUGHT:

- General Physics – Electricity and Magnetism.
- Modern Physics I – Special Relativity.
- Modern Physics II - Nuclear Physics.
- Nuclear Physics I. (Introduction to Nuclear Physics)
- Nuclear Physics II. (Introduction to Nuclear Reactions)
- Electricity and Magnetism Laboratory.
- Modern Physics Laboratory.
- Basic Electricity Laboratory for Chemistry majors.
- Wave Optics and Microwave Laboratory for Physics majors.

PUBLICATIONS:

- Sixty (60) papers published in peer-reviewed journals.
- Eighty-eight (88) presentations in Conferences, including articles published in Conference proceedings volumes.
- Two (2) translations of physics textbooks into Greek.

- Co-editor of two (2) Conference proceedings volumes.

LIST OF PUBLICATIONS

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).
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  $E^* \approx 54$  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 MeV/u*, P. Staszal, Z. Majka, L.G. Sobotka, V. Abentante, 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 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. Choleev, 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. Sadovsky, 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. Papaxristodoulou, 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. A**21**, 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. C**71**, 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) G**31**, (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. B**633**, 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. Sparduto, 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. E**15**, 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. A**784**, 13 (2007).
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- 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. E***16**, 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.Swiderski, A.Trifiro, M.Trimarchi, J.P.Wieleczko, L.Zetta, W.Zipper, *Acta Phys.Pol. B***38**, 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. C***76**, 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. C***77**, 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. E***17**, 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. E* **17**, 190 (2008).
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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 TALKS

- *Intenet 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, Jagellonian University, Krakow, Poland (September 20, 2005).
- *Development of a Statistical Model Code for Intermediate Mass Fragment Emission*, Institute of Physics, Jagellonian 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, Jagellonian 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 Accelérateur 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).

## LECTURE NOTES

- Lecture notes on 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
  - <http://ecourse.uoi.gr/course/view.php?id=1410>

## BOOKS

- *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).