CURRICULUM VITAE

ROSA VLASTOU

Professor Emeritus

National Technical University of Athens (NTUA)

1. PERSONAL DATA

FAMILY NAME	**:**	**VLASTOU**
FIRST NAME	**:**	**ROSA**
PLACE OF BIRTH	**:**	**Athens**
DATE OF BIRTH	**:**	**13 January 1951**
FAMILY STATUS	**:**	**Married - Two children**
WORK ADDRESS	**:**	**Department of Physics, N.T.U.A., Zografou Campus, Athens 157 80, Greece, tel. 210 7723008, fax 210 7723025** **e-mail: vlastou@central.ntua.gr** **www.physics.ntua.gr**

2. EDUCATION AND PROFESSIONAL EXPERIENCE

2.1 Professor - NTUA-Department of Physics (July 2007-today)
2.2 Associate Professor - NTUA-Department of Physics (June 1997-July 2007)
2.3 Assistant Professor - NTUA-Department of Physics (November 1988-June 1997)
2.4 Lecturer - NTUA-Department of Physics (July 1982-November 1988)
2.5 Research Assistant – NTUA-Department of Physics (March 1980-July 1982)
2.6 Ph.D in Nuclear Physics, Department of Physics, University of Birmingham, UK - July 1978 (Greek State Scholarship)
2.7 Master of Science by Research, Department of Physics, University of Birmingham, UK– June 1976 (Greek State Scholarship)
2.8 Bachelor, Department of Physics, University of Athens, March 1973

3. RESEARCH INTERESTS

3.1 **Light ion reactions with polarized beams** (1974-1987) in collaboration with the University of Birmingham and Daresbury laboratory, UK
3.2 **Heavy ion reactions** (1980-1993) at NCSR “Demokritos”, Greece and T.U. Munich, Germany
3.3 **High spin gamma-ray spectroscopy** (1988-1997) at Daresbury laboratory, UK and INFN Legnaro, Italy
3.4 **Applications: Materials analysis with nuclear reaction techniques** (1996-2006) at NCSR “Demokritos”, Greece, T.U. Munich and Rossendorf Lab, Germany
3.5 **Deuteron induced reactions in light elements relevant to materials analysis** (2006-2017) at NCSR “Demokritos”, Greece
3.6 **Applications: Radioactivity in the marine environment** (2006-today) in collaboration with NCSR “Demokritos” and HCMR, Greece
3.7 **Neutron induced reactions** (2003-today) at CERN, n_TOF collaboration and NCSR “Demokritos”, Greece

4. THESIS SUPERVISION

4.1 **15** PhD theses completed and **1** in progress
4.2 1**6** MSc theses completed and **1** in progress
4.3 **40** Diploma theses completed and **2** in progress

5. TEACHING EXPERIENCE

5.1 Undergraduate Courses at the National Technical University of Athens for ~40 years for the Departments of Physics, Electrical, Mechanical and Chemical Engineering on :

- Mechanics and Relativity
- Oscillations and Waves
- Optics
- Nuclear Physics and Applications

5.2 Lab Courses at the National Technical University of Athens for ~40 years for the Departments of Physics, Electrical, Mechanical and Chemical Engineering on :

- Physics I and II (Mechanics and Electromagnetism)
- Modern Physics
- Optics
- Atomic and Molecular Physics
- Nuclear and Elementary Particle Physics

5.3 Postgraduate Course on Nuclear Physics and Applications

6. BOOKS

- Co-author in 3 Physics Laboratory books as well as 1 Lab book for Nuclear and Elementary Particle Physics and 1 for Nuclear Physics and Applications.
- Co-editor in Conference Proceedings of 2 International and 4 Hellenic Nuclear Physics conferences

7. FUNDED RESEARCH PROGRAMS

- EEC Fellowship for collaboration at Daresbury Laboratory, UK.
- IAEA research contract (3552/RB)
- STIMULATION (The ESSA-30 collaboration-ST2J-0205)
- SCIENCE (The EUROGAM collaboration-SCI-CT91-687)
- TMR and LSF with Legnaro N.L. (Italy) and Rossendorf Lab. (Germany)
- Bilateral Agreement with University of Munich, Germany
- ARCHIMIDIS, NTUA Basic Research Program
- THALIS, NTUA Basic Research Program
- EC 5th EURATOM F.P. (n_TOF-NP-ADS project, FIKW-2000-00107)
- PROTAGORAS, NTUA Basic Research Program
- PEVE-2008, NTUA Basic Research Program
- HERAKLITOS, Ministry of Education Research Program
- PYTHAGORAS I, Ministry of Education Research Program
- PYTHAGORAS II, Ministry of Education Research Program
- IAEA, MANREAD Co-ordinated Research Project
- HERAKLITOS, Ministry of Education PhD Research Program
- ERINDA, Euratom Large Scale Facility Program
- THALIS, Ministry of Education Research Program

- CHANDA (solving CHAllenges in Nuclear Data), FP7-Fission-2013
- Bilateral Agreement Research Program : Greece-China
- SANDA (Supplying Accurate Nuclear Data for energy and non-energy Applications), H2020 EU project 847552.
- General Secretariat of Rresearch & Technology - Reward Research program

8. CONFERENCES -TALKS

- Participation in more than 60 International and Hellenic Nuclear Physics Conferences
- More than 50 invited talks in conferences, Universities, workshops, meetings, summer schools etc.

9. ADMINISTRATIVE DUTIES

- Head of Physics Department of NTUA (1997-1999)
- Head of the Physics Department Committee for the Installation and Organization of Undergraduate Students Lab (1990-1998 , 2004-2006, 2010-today)
- Member of the Physics Department Committee for the Undergraduate Syllabus
- Responsible for the planning, financing and erection of the new Physics Building (1999-2006)
- Member of the University Committees for a) the University Campus Buildings, b) Internal Evaluation of NTUA, c) Entrance Examinations d) Open doors for High Schools e) Research Committee
- Member of the Organizing Committee for 7 International and 4 Hellenic Nuclear Physics Conferences
- President of the Hellenic Nuclear Physics Society (2012-2016), Vice President (2002-2004) and Secretary (2004-2006, 2010-2012).

10. PUBLICATIONS

- **Over 180** Publications in refereed Journals
- **Over 400** Publications in International and Hellenic Conference Proceedings
- **Over 3000** citations and h factor **30** (according to Scopus)

11. LIST OF PUBLICATIONS IN REFEREED JOURNALS

1. Scattering of 33MeV polarized ^{3}He particles by hydrogen and helium isotopes. O.Karban, A.K.Basak, C.O.Blyth, W.Dahme, J.B.A.England, J.M.Nelson, N.T.Okumusoglu, S.Roman. G.F.Shute and R.Vlastou, J.Phys.G:Nucl.Phys.3(1977)571.

2. Small medium-pressure gas target system for use with polarized and unpolarized ion beams. J.B.A.England and R.Vlastou, Nucl.Instr.Meth.147(1977)443.

3. Scattering of polarized and unpolarized ^{3}He by ^{3}H and high excitation in ^{6}Li. R.Vlastou, J.B.A.England, O.Karban, S.Baird, Nucl.Phys.A292(1977)29.

4. The elastic scattering of polarized and unpolarized ^{3}He by ^{3}He and excitation in the ^{6}Be system. R.Vlastou, J.B.A.England, O.Karban S.Baird and Y.W. Lui, Nucl.Phys.A303(1978)368.

5. Fusion cross section of $^{16}O+^{13}C$ reaction. C.T.Papadopoulos, R.Vlastou, E.N.Gazis, P.A.Assimakopoulos, C.A.Kalfas, S.Kossionides and A.C.Xenoulis. Phys.Rev.C34(1986)196.
6. Structure of ^{96}Ru. E.Adamides, J.Sinatkas, L.D.Skouras, A.C.Xenoulis, E.N.Gazis, C.T.Papadopoulos and R.Vlastou, Phys.Rev.C34(1986)791.

7. pn to d and αpn to αd emission ratios in heavy ion induced reactions. E.N.Gazis, C.T.Papadopoulos, R.Vlastou and A.C.Xenoulis, Phys.Rev.C34(1986)872.

8. Apparent violation of isospin symmetry in the $^{3}H(^{3}He,^{2}H)^{4}He$ reaction. G.Rai, C.O.Blyth, J.B.A.England, A.Farooq, O.Karban, E.Rawas, S.Roman and R.Vlastou, Phys.Rev.C38(1988)2036.

9. High-spin properties of ^{173}Re. L.Hildingsson, W.Klamra, Th.Lindblad, C.G.Linden, C.A.Kalfas, S.Kossionides, C.T.Papadopoulos, R.Vlastou, J.Gizon, D.Klarke, F.Kasaie and J.N.Mo, Nucl.Phys.A513(1990)394.

10. The competition between p2n,dn and t emission in heavy ion induced reactions. A.C.Xenoulis, A.E.Aravandinos, G.P.Eleftheriades, C.T.Papadopoulos, E.N.Gazis and R.Vlastou. Nucl.Phys.A516(1990)108.

11. Study of high spins in ^{173}Os. C.A.Kalfas, S.Kossionides, C.T.Papadopoulos, R.Vlastou, L.Hildingsson, W.Klamra, Th.Linden, R.Wiess, J.Gizon, S.Juutinen, R.Chapman. D.Clarke, F.Kasaie, J.C.Lisle and J.N.Mo. Nucl.Phys.A526(1991)205.2.

12. High spin phenomena in ^{174}Os. L.Hildingsson, W.Klamra, Th.Lindblad, C.G.Linden, B.Cederwall, W.Satula, R.Wiess, C.A.Kalfas, S.Kossionides, C.T.Papadopoulos, R.Vlastou, J.Gizon, D.Klarke, F.Kasaie and J.N.Mo, Nucl.Phys.A545(1992)871.

13. First measurement of magnetic properties in a superdeformed nucleus. M.J.Joyce, J.F.Sharpey-Schafer, P.J.Twin, C.W.Beausang, D.M.Cullen, M.A.Riley, R.M.Clark, P.J.Dagnal, J.Duprat, P.Fallon, P.D.Forsyth, N.Fotiades, S.J.Gale, B.Gall, F.Hannachi, S.Harissopoulos, K.Hauschild,P.M.Jones, C.A.Kalfas, A.Korichi, Y.LeCoz, M.Mayer, E.S.Paul, M.G.Porquet, N.Redon, C.Schuck, J.Simpson, R.Vlastou and R.Wodsworth, Phys.Rev.Lett.71(1993)2176.

14. Investigation on some $^{16}O+^{12}C$ resonances by the pn to d copmetition ratio thechnique. E.N.Gazis, R.Vlastou, C.T.Papadopoulos, A.E.Aravantinos, E.Adamides, A.C.Xenoulis, U.Lenz, K.E.G.Lobner, K.Rudolph, S.J.Scorka, H.G.Thies, Nucl.Phys. A569(1994)603.

15. High-spin structure of ^{155}Dy. R.Vlastou, C.T.Papadopoulos, M.Serris, C.A.Kalfas, N.Fotiades, S.Harissopulos, S.Kossionides, J.F.Sharpey-Schafer, E.S.Paul, P.D.Forsyth, P.J.Nolan, N.D.Ward, M.A.Riley, J.Simpson, J.C.Lisle, P.M.Walker, M.Guttormsen and J.Rekstad, Nucl.Phys. A580(1994)133.
16. The N=7 unfavoured superdeformed band in ^{193}Hg; Coriolis splitting and neutron shell structure at extreme deformation. M.J.Joyce, J.F.Scarpey-Schafer, M.A.Riley, D.M.Cullen, F.Azaiez, C.W.Beausang, R.M.Clark, P.J.Dagnal, I.Deloncle, J.Duprat, P.Fallon, P.D.Forsyth, N.Fotiades, S.J.Gale, B.Gall, F.Hannachi, S.Harissopulos, K.Hauschild, P.M.Jones, C.A.Kalfas, A.Korichi, Y.Le Coz, M.Mayer, E.S.Paul, M.J.Paul, M.G.Porquet, N.Redon, C.Schuck, J.Simpson, R.Vlastou, R.Wadsworth and W.Nazrewicz, Phys.Lett. B340(1994)150.
17. Highly excited ΔI=1 structures in ^{193}Hg. N.Fotiades, S.Harissopulos, C.A.Kalfas, S.Kossionides, C.T.Papadopoulos, R.Vlastou, M.Serris, M.Meyer, N.Redon, R.Duffait, Y.LeCoz, L.Ducroux, F.Hannachi, I.Delongle, B.Gall, M.G.Porquet, C.Schuck, F.Azaiez, J.Duprat, A.Korichi, J.F.Sharpey-Schafer, M.J.Joyce, C.W.Beausang, P.J.Dagnall, P.D.Forsyth, S.J.Gale, P.M.Jones, E.S.Paul, J.Simpson, R.M.Clark, K.Hauschild and R.Wadsworth, J.Phys.G : Nucl. Part. Phys. 21(1995)911.

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19. High spin structure in ^{194}Hg. N.Fotiades, S.Harissopulos, C.A.Kalfas, S.Kossionides, C.T.Papadopoulos, R.Vlastou, M.Serris, J.F.Sharpey-Schafer, M.J.Joyce, C.W.Beausang, P.J.Dagnal, P.D.Forsyth, S.J.Gale, P.M.Jones, E.S.Paul, P.J.Twin, J.Simpson, D.M.Cullen, P.Fallon, M.A.Riley, R.M.Clark, K.Hauschild and R.Wadsworth, Z.Phys. A354(1996)169.

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24. A method of determining the stopping power of light ions in crystal channels in the backscattering geometry. M.Kokkoris, S.Kossionides, X.Aslanoglou, G.Kaliambakos, T.Paradellis, S.Harissopulos, E.N.Gazis, R.Vlastou, C.T.Papadopoulos and R.Groetschel, Nucl.Instr. Meth. Phys.Res.B 136-138(1998)137.

25. Radiation damage of $YBa_2Cu_3O_7$ superconductors. R.Vlastou, E.N.Gazis, C.T.Papadopoulos, E.Liarokapis, D.Palles, N.Poulakis, S.Kossionides, M.Kokkoris, G.Kalliambakos, W.Assmann and P.Berbeich, Nucl.Instr. Meth. Phys.Res.B136-138(1998)1286.

26. Heavy-ion induced damage of crystalline Ge and W in the 0.5-8A MeV range. H.Huber, W.Assmann, S.A.Karamian, H.D.Mieskes, H.Nolte, E.N.Gazis, M.Kokkoris, S.Kossionides, R.Vlastou, R.Groetschel, A.Muecklich and W.Prusseit, Nucl.Instr. Meth. Phys.Res.B146(1998)309.

27. Ion irradiation induced defects in epitaxial GaAs layers. N.Arbatzanis, R.Vlastou, G.Konstandinidis, W.Assmann, M.Papastamatiou, E.N.Gazis, and G.J.Papaioannou, Solid State Electronics 42(1998)277.

28. Characterization of optical UV filters using Rutherford backscattering spectroscopy. R.Vlastou, E.Fokitis, S.Maltezos, G.Kallimbakos, M.Kokkoris and S.Kossionides, Nucl.Instr. Meth. Phys.Res.B161-163(2000)590.

29. Simulations and comparisons of channeling spectra in the $p+^{28}Si$ system in the backscattering geometry. X.A.Aslanoglou, A.Karydas, M.Kokkoris, E.Kossionides, Th.Paradellis, G.Souliotis and R.Vlastou, Nucl.Instr. Meth. Phys.Res.B161-163(2000)524.

30. Fusion cross section of the $^{7}Li+^{11}B$ reaction. R.Vlastou, C.T.Papadopoulos, C.Tsabaris, P.A.Assimakopoulos, A.A.Pakou, G.Doukellis, C.A.Kalfas and A.C.Xenoulis. Eur.Phys.J. A8(2000)361.

31. Fusion cross section limitation of the $^{7}Li+^{11}B$ reaction. C.Tsabaris, C.T.Papadopoulos, R.Vlastou, P.A.Assimakopoulos, A.A.Pakou, E.Adamides, C.A.Kalfas and A.C.Xenoulis, Physica Scripta T88(2000)131.

32. Determination of sulphur and copper depth distributions in patina layers using nuclear reaction techniques. G.Kalliambakos, S.Kossionides, P.Misailides, C.T.Papadopoulos and R.Vlastou, Nucl.Instr. Meth. Phys.Res.B170-(2000)467.

33. Characterization of RF-magnetron deposited thin film TiN for use as a metal electrode on TiN/ SiO_2/Si MOS devices. M. Kokkoris, R. Vlastou, X. A.Aslanoglou, E. Kossionides, R. Grötzschel, and Th. Paradellis, Journal of Applied Physics 88, 7192 (2000).

34. Determination of the stopping power of channeled protons in SiO_2 in the backscattering geometry. M.Kokkoris, R.Vlastou, X.Aslanoglou, S.Kossionides, R.Groetzschel and T.Paradellis, Nucl.Instr. Meth. Phys.Res.B 173(2001)411.

35. Determination of Parameters for Channeling of Protons in SiC Polytype Crystals in the Backscattering Geometry. M. Kokkoris, S. Kossionides, R. Vlastou, X. A. Aslanoglou, R. Grötzschel, B. Nsouli, A. Kuznetsov, S. Petrovic, and Th. Paradellis, NIM B184(2001)319.

36. Study of the irradiation damage in SiC by ion channeling. M.Kokkoris, S.Kossionides, A.Kyriakis, K.Zachariadou, G.Fanourakis, R.Vlastou and Th. Paradellis,. Nucl. Instr. Meth. Phys.Res. B188(2002)78.

37. RBS and HIRBS studies of nanostructured AgSiO2 Sol-Gel thin coatings. M.Kokkoris, C.C.Trapalis, S.Kossionides, R.Vlastou, B.Nsouli, R.Grotzschel, S.Spartalis, G.Kordas and Th.Paradellis. Nucl. Instr. Meth. Phys.Res.B188(2002)67.

38. Neutron cross measurements in the Th-U cycle by the activation method. D.Karamanis, S.Andriamonje, P.A.Assimakopoulos, G.Doukelis, D.A.Karademos, A.Karydas, M.Kokkoris, S.Kossionides, N.G.Nicolis, C.Papachristodoulou, C.T.Papadopoulos, N.Patronis, P.Pavlopoulos, G.Perdikakis, R.Vlastou, The n-TOF collaboration. Nucl.Instr. Meth. Phys.Res.A505(2003)381.

39. Investigation of deep implanted fluorine channeling profiles in silicon using resonant NRA. M.Kokkoris, G.Perdikakis, R.Vlastou, C.T.Papadopoulos, X.A.Aslanoglou, M.Posselt, R.Groetzschel, S.Harissopulos, S.Kossionides, Nucl. Instr. Meth. Phys.Res. B201(2003)623.

40. Dielectric properties of CVD grown SiON thin films on Si for MOS microelectronic devices. N.Konofaos, E.K.Evangelou, X.Aslanoglou, M.Kokkoris and R.Vlastou, Semicond.Sci.Technol.18(2003)1.

41. A study of the dechanneling of protons in SiC polytype crystals in the energy range Ep=400-650keV. M.Kokkoris, G.Perdikakis, S.Kossionides, S.Petrovic, R.Vlastou and R.Groetzschel, Nucl. Instr. Meth. Phys.Res. B219-220(2004)226.

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43. New experimental validation of the pulse height weighting technique for capture cross section measurements. U.Abbondanno, …. and the n_TOF collaboration). Nucl.Instr. Meth. Phys.Res. A521(2004)454.

44. Measurement of the n_TOF beam profile with a micromegas detector. J.Pancin, … and the n_TOF collaboration. Nucl.Instr. Meth. Phys.Res. A524(2004)102.

45. The data acquisition system of the neutron time of flight facility n_TOF at CERN. U.Abbondanno, …… and the n_TOF collaboration). Nucl.Instr. Meth. Phys.Res. A538(2005)692.

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