

Curriculum Vitae

Prof. Theo J.M. Zouros
University of Crete



Position

Associate Professor of Experimental Atomic and Molecular Physics

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Research Interests

Physics of highly charged ions

Atomic collision physics with accelerators

Auger Electron spectroscopy of highly charged ions

Excitation and ionization in ion-atom and electron-ion collisions

Charged particle optics and optimization of electron spectrometers

Photoionization of atoms using X-ray free electron laser beams

Personal Information

Born May 11, 1951 Karachi Pakistan, Greek citizen, 2 children

Education

1983 Ph.D. Atomic Physics, **Yale University, New Haven, Conn. USA**

1979 M. Phil. Physics, Yale University

1976 M. S. Physics, Yale University

1974 B.S. Physics, **M.I.T., Cambridge, Mass. USA**

Professional Career

2009 – now Research Scientist **INP Tandem, Demokritos, Athens, Greece**

1995 – now Assoc. Prof. **Dept. of Physics, U. of Crete, Heraklion, Crete**

1991 – 2007 Research Scientist **IESL-FORTH, Heraklion**

2002 – 2003 Visiting Prof. **Kansas State University**

1997 – 1998 Visiting. Scientist **Univ. of Frankfurt/GSI, Darmstadt, Germany**

1996 – 1997 Visiting Prof. **Kansas State University**

1990 – 1995 Assist. Prof. **Dept. of Physics, U. of Crete**

1990 Guest Scientist **Université de Caen, Caen, France**

1986 – 1990 Res. Assoc. **Kansas State University, Manhattan, Kansas**

1984 – 1986 Guest Scientist **Hahn-Meitner-Institute, Berlin, Germany**

Teaching

Advanced Physics Lab (3rd year UoC physics requirement)
Electricity & Magnetism Lab (2nd year UoC physics requirement)
Optics Lab (2nd year UoC physics requirement)
Electron Optics (part of KSU physics grad course - spring 2003)
Introduction to the PC (1st year UoC physics requirement)
Intro to Programming (FORTRAN 77) (1st year UoC physics requirement)
Contemporary Topics in Physics I & II (1st year UoC physics elective)
Quantum Mechanics (3rd year UoC physics requirement)
Atomic Physics and Atomic Collisions (4th UoC year elective)
Quantum Structure of Matter (3rd year UoC physics requirement)
Atomic Collisions (4th UoC year elective/graduate)

Distinctions

2006 [Fellow American Physical Society](#)
 2001- Adjunct Professor, Dept. of Physics, Kansas State University

Research Activities

Publications and Talks

110 Articles in peer-reviewed major international journals
102 Invited talks at universities and research institutes
30 Invited talks at international conferences/workshops
1510 Citations of which 1085 without self-citations
19 h – index (Hirsch number)

Conference Organization

1995 HCM Network, Amoudara, Heraklion, Crete, Local organizer
 2001 Infrastructure Cooperation Network LEIF, Fodele, Crete, Local organizer
 2001 Lab View workshop, Univ. of Crete, Heraklion, Main organizer
 2007 [XX ISIAC](#), Agios Nikolaos, Crete, Main organizer
 2011 [CPOTS](#) Erasmus IP – project coordinator

Grants

49k€ HCM Network – EU, 53k€ 2 Greek Ministry S&T grants
 34k€ 3 Bilateral S&T Cooperation grants with Germany and Hungary
 42k€ various travel grants (NATO, DAAD, Hereaus, IAEA, UoC)
 34k€ EU LLP for the organization of the CPOTS Erasmus IP

Note: My main research program was maintained at the [J.R. Macdonald](#) (JRM) 7MV tandem accelerator laboratory at [Kansas State University](#) from 1990 to 2008. The JRM is funded by [the US Department of Energy \(US-DOE\)](#) with an overall grant of about 2.5 M\$/yr. My program there represented about 10-15% of this research grant shared with Prof. Pat Richard, my main collaborator at the JRM. Since January 2009 my laboratory has moved to the 5 MV Tandem Laboratory of the Institute of Nuclear Physics at Demokritos in Athens, Greece. A new dedicated beam line for the investigation of ion-atom collisions is being presently build-up at Demokritos and experiments are being planned.

Languages: Greek, English (native), Spanish, French, Portuguese, German (limited)

Hobbies: Windsurfing, Marathon running, yoga, hiking, tennis, bicycling, jazz, salsa