

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

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EDUCATION

Ph.D in Solid-State Physics, Athens University, Greece (1982)

Diploma in Physics, Athens University, Greece (1976)

RESEARCH & TEACHING APPOINTMENTS

11/2005 - : Research Director, TPCI, NHRF, Athens, Greece.

4/1998 – 11/2005: Senior Researcher, TPCI, NHRF, Athens, Greece.

1992-1998: Associate Researcher, TPCI, NHRF, Athens, Greece.

1988-1992: Assistant Researcher, TPCI, NHRF, Athens, Greece.

1980-1981 and 1983-1988: Research Fellow, TPCI, NHRF, Athens, Greece.

MAIN RESEARCH INTERESTS

- Theory and computation of resonances.
- Properties and dynamics of atoms and molecules in external static and ac-fields and/or in intense short laser pulses.
- Multielectron processes in attosecond time scale.

CONFERENCES AND INVITED TALKS

Participation, with presentation of work, in 14 international conferences. Invited speaker at 2 international conferences and at Universities. Participation in the organizing committee of the 3rd South European Conference on Atomic and Molecular Physics (SECAMP-96), Island of Kos, Greece.

TEACHING ACTIVITIES

Training of young scientists in applications of computational techniques at TPCI/NHRF; funded by E.U., 1990-93
Supervision of graduate students.

PROFESSIONAL AFFILIATIONS & ACTIVITIES

Member of the Greek Physical Society.

PUBLICATIONS

79 publications in refereed journals. More than 1100 citations.

SELECTED RECENT PUBLICATIONS

Computation of strong-field multiphoton processes in polyelectronic atoms: State-specific method and applications to H and Li⁺. Th. Mercouris, Y. Komninos, S. Dionissopoulou and C. A. Nicolaides [Phys. Rev. A 50, 4109 \(1994\)](#)
Attosecond dynamics of electron correlation in doubly excited atomic states C. A. Nicolaides, Th. Mercouris, and Y. Komninos [J. Phys. B 35, L271 \(2002\)](#)
Time-resolved hyperfast processes of strongly correlated electrons during the coherent excitation and decay of multiply excited and inner-hole excited states. Th. Mercouris, Y. Komninos and C. A. Nicolaides [Phys. Rev. A 76, 033417 \(2007\)](#)
Delay in Photoemission M. Schultze, ...Th. Mercouris, Y. Komninos, C. A. Nicolaides, ...F. Krausz and V. S. Yakovlev [Science 328, 1658 \(2010\)](#)

Regular series of doubly excited states inside two-electron continua: Application to $2s^2$ -hole states in neon above the $Ne^{2+} 1s^2 2s^2 2p^4$ and $1s^2 2s 2p^5$ thresholds Y. Komninos, Th. Mercouris and C. A. Nicolaides [Phys. Rev. A 83, 022501 \(2011\)](#)