



Dr. Paraskevi Divari

Assistant Professor

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Google Scholar Profile: <https://scholar.google.gr/citations?user=00g5q38AAAAJ>

Academic education - Degrees

- Bachelor in Physics, Physics Department, National and Kapodistrian University of Athens, Greece, 1988.
- PhD in Nuclear Physics, Physics Department, Aristotle University of Thessaloniki, Greece, 1997.
Title of the thesis: *Structure study of exotic nuclei in the mass region $A \sim 100$.*

Academic-Research Positions

- **Assistant Professor**, Hellenic Military Academy, Greece, 7/05/2015 - present
- **Lecturer**, Hellenic Military Academy, Greece, 1/2/2010 - 7/05/2015.
- Post-Doctoral Researcher, Department of Physics, University of Ioannina, 1/7/2006-30/6/2008.
- Post-Doctoral Researcher, Department of Physics, University of Ioannina, 1/9/2003-31/6/2005.
- Post-Doctoral Scholarship (Nuclear Physics), Greek State Scholarships Foundation, 1998-2000.
- Post-Doctoral Researcher, Department of Physics, University of Ioannina, 7/1998-6/1999.

Teaching Experience

- Teaching of undergraduate courses (Hellenic Military Academy):
General physics, Modern Physics, Atomic and Nuclear Physics, Energy Technology
- Teaching of postgraduate courses (Department of Physics, University of Ioannina):
Post-graduate program: 'New technologies and research on Physics Education',
Department of Physics, University of Ioannina, 1/9/2003 - 30/6/2005.
- Teaching of undergraduate courses (Technological Educational Institute of Piraeus):
(200-2011) and ASPAITE (2000-2002): Physics I, Physics II, Physics Laboratory.
- Teaching in the E-Learning Program 'Security Management', National & Kapodistrian University of Athens, Greece, Radiological and Nuclear explosives.
- Supervision of Diploma Theses 1/9/2014 - present: *Diploma Thesis focused on Military Physics and Nuclear Weapons.*

Administrative Positions & Delegations

- **Director of General Physics Laboratory**, Hellenic Military Academy, 2016-present.
- Member of the Undergraduate Studies Committee of Hellenic Military Academy.
- Member of the Evaluation Committee for election/promotion of teaching laboratory staff.
- Member of the Evaluation Committee for election of Teaching Staff in Contract.

Research Interests

- *Theoretical Nuclear Physics*
Nuclear structure calculations, Cold Dark Matter, Electroweak Interactions, Neutrino Physics.
- *Quantum theory of Complex Atomic systems*
Study of electronic states and properties of superlattices and graphene nanostructures
- *Optical Physics*: Theoretical study of specialty optical fibers - coupling to Laser sources

Books-Published Scientific Work

Educational Textbooks:

- *Atomic-Nuclear Physics*, P. C. Divari, *Educational Textbook*, Athens 2004, pages 77.
- *Physics (Mechanics-Heat)*, P. C. Divari, *Educational Textbook*, 2000, pages 250.
- *The strong and electromagnetic interaction of core region*, P. C. Divari, *Textbook*, Athens 2004, pages 169.

Scientific Publications:

(35) Published papers in International Peer-Review Journals (ISI).

(20) Published papers in International Peer-Review Conference Proceedings (APS,IOP,IEEE).

(2) Invited Book Chapters (International Peer-Review Editions).

Selected Publications in International peer-reviewed Journals:

- P. C. Divari, ‘Supernova neutrino scattering off Gadolinium odd isotopes in water Cherenkov detectors’, *J. of Cosmology and Astroparticle Physics* JCAP09 (2020) 008.
- P. C. Divari, ‘Supernova neutrino scattering off Gadolinium even isotopes in water Cherenkov detectors’, *J. of Cosmology and Astroparticle Physics* JCAP09 (2018) 029.
- P. C. Divari and J.D. Vergados, ‘Neutrino oscillations in the presence of super-light sterile neutrinos’, *Int. J. Mod Phys. A* **31** (2016) 1650123.
- P. C. Divari and D. Vergados, ‘Searching for dark matter-spin-dependent event rates’ (*invited paper*), *Int. J. Mod Phys. A* **29** (2014) 1443003.
- P. C. Divari, ‘Supernova neutrino on ^{114}Cd and ^{116}Cd isotopes via charge current interaction’, *J. Phys. G: Nucl. Part. Phys.* **40** (2013) 125201.
- P. C. Divari, S. Galanopoulos and G. A. Souliotis, ‘Coherent scattering of neutral current neutrinos as a probe for supernova detection’, *J. Phys. G: Nucl. Part. Phys.* **39** (2012) 095204.
- P. C. Divari and G. S. Kliros, "Modeling the thermopower of ballistic graphene ribbons", *Physica E - LDS & Nanostructures* **42** (2010) 2431-2435.
- P.C. Divari, T.S. Kosmas, J.D. Vergados and L.D. Skouras, ‘Shell model calculations for light supersymmetric particle scattering off light nuclei’, *Phys. Rev.* **C61** (2000) 54612-54624.
- J. Suhonen, P.C. Divari, L.D. Skouras and I.P. Johnstone, ‘Double beta decay of ^{92}Mo : comparison of the shell model and the QRPA’, *Phys. Rev.* **C55** (1997) 714-719.