

CURRICULUM VITAE

ANASTASIOS LIOLIOS
Physics Department
Aristotle University of Thessaloniki, Greece

Personal Data

Birth: Thessaloniki, August 28, 1955
Address: L.Thessalonikis 14A, Peraia, Thessaloniki, Greece
Mailing address: Physics Dept., University of Thessaloniki, 54124 Greece
E-mail: lioliosa@auth.gr, Anastasios.Liolios@cern.ch
URL: <http://www.physics.auth.gr/en/member/show/41>

Present academic position

Professor, Physics Dept., University of Aristotle of Thessaloniki (March 2017 – today)

Advisor Experience

Supervisor in one PhD Thesis.
Member of the supervising committee for 8 PhDs.

Teaching Experience

I teach in the following courses at the Physics Dept., A.U.Th:
Atomic - Molecular Physics (2nd semester), Atomic - Molecular Physics Lab (3rd semester),
Nuclear Physics Lab (6th & 8th semester), Cosmic Radiation Physics (7th semester), Physics of
Elementary Particles (Postgraduate Studies program).

Author or contributing author to Scientific Books

“Cosmic Radiation”, A. Liolios, A.U. Thessaloniki 2001, 2004
“Introduction in Cosmic Rays”, A. Liolios, eds. Copycity, Thessaloniki 2012
Contribution to:
“Atomic Physics Laboratory Courses”, A.U. Thessaloniki 1995
“Notes on Modern Physics”, A.U. Thessaloniki 1997
“Nuclear Physics Laboratory Courses”, A.U. Thessaloniki 2001
“Nuclear Physics in the Laboratory”, eds. Copycity, Thessaloniki 2012

Outreach activity - Seminars - Talks

Talks and seminars have been given in various audiences (public, teachers, university students, high-school students), in fields related to Particle, Astroparticle and Nuclear Physics, at Thessaloniki and other cities of Northern Greece, many of which in summer schools organized by the Greek Association of Physicists.

Conferences

Participant in more than 40 conferences.

Research Projects

Scientific research administrator for the project: Development of methods for controlling the functioning conditions for MDT chambers. September 1999 – March 2001.

Scientific research deputy administrator in the year 1994 for 5 projects related to ATLAS.

Research activity and Research interests

My research interests include particle & astroparticle physics and particle & radiation detector development. I am author or co-author in a series of journal publications (68 publications) and conference publications (75 publications) in the above fields, followed by a series of notes targeting on the teaching of these fields to my students. Analytically my research fields are the following:

- 1) Positron Annihilation Physics
- 2) CPLEAR Experiment for the study of CP violation in neutral Kaons
- 3) ATLAS Experiment at the Large Hadron Collider
- 4) CAST Experiment for the direct detection of solar axions or axion-like particles
- 5) Searches for dark matter particles
- 6) Cosmic and gamma rays detection

Recent Publications

1. *Deep sea tests of a prototype of the KM3NeT digital optical module: KM3NeT Collaboration*
S. Adrián-Martínez,... A.Liolios, ... (KM3NeT Collaboration)
Eur. Phys. J. C 74(2014) 1-8
2. *New solar axion search using the CERN Axion Solar Telescope with He-4 filling*
M.Arik,... A.Liolios, ... (CAST Collaboration)
Phys. Rev. D 92 (2015) 021101
3. *Search for chameleons with CAST*
V.Anastassopoulos,... A.Liolios, ... (CAST Collaboration)
Physics Letters B 749 (2015) p.172-180
4. *ARCA and ORCA - Astroparticle & Oscillation Research with Cosmics in the Abyss (Letter of Intent for KM3NeT 2.0)*
S. Adrián-Martínez,... A.Liolios, ... (KM3NeT Collaboration), Jan. 2016
J. Phys.G43 (2016), 8, 084001: Nuclear and Particle Physics – Special Issue Article
5. *New CAST Limit on the Axion-Photon Interaction*
V.Anastassopoulos,... A.Liolios, ... (CAST Collaboration)
Nature Phys. 13 (2017) 584-590