

CURRICULUM VITAE

November 2010

in short

ANASTASIOS LIOLIOS

**Associate Professor, 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>

Academic degrees

Graduate in Physics Aristotle University of Thessaloniki, 1978
Ph.D.-Thesis Aristotle University of Thessaloniki, 1989

Academic positions

Lecturer, Physics Dept., University of Thessaloniki (March 1990 - August 1993)
Assistant Professor, Physics Dept., University of Thessaloniki (August 1993 – May 2009)
Associate Professor, Physics Dept., University of Thessaloniki (May 2009 – today)

Advisor Experience

Supervisor in one PhD Thesis (not finished yet).
Member of the supervising committees for 7 PhDs (6 of them are finished).

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).
Also, I gave three seminars to the public in Thessaloniki and Veroia and one seminar at the
Institute of Nuclear Research and Nuclear Energy of Bulgarian Academy of Science in Sofia,
Bulgaria.

Books or Contributions to University Books

“Cosmic Radiation”, A.U. Thessaloniki, 2001, 2004

Contributions to:

“Notes on Modern Physics”, A.U. Thessaloniki, 1997

“Atomic Physics Laboratory Courses”, A.U. Thessaloniki, 1995

“Nuclear Physics Laboratory Courses”, A.U. Thessaloniki, 2001

Conferences

Participated in more than 30 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

CURRICULUM VITAE
in detail

ANASTASIOS LIOLIOS
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Personal Data

Birth: Thessaloniki, August 28, 1955
Address: L.Thessalonikis 14A, Peraia, Thessaloniki, Greece
Mailing address: Physics Dept., University of Thessaloniki, 54124 Greece
Telephone: +30 2310 998016
E-mail: lioliosa@auth.gr, Anastasios.Liolios@cern.ch
URL: <http://www.physics.auth.gr/en/member/show/41>

Academic degrees

Graduate in Physics Aristotle University of Thessaloniki, 1978

Ph.D.-Thesis Aristotle University of Thessaloniki, 1989

Present academic position

Associate Professor at the Physics Department, University of Thessaloniki.

Predoctoral academic position:

Scientific Research Fellow
Physics Dept., University of Thessaloniki
February 1982 - February 1990

Postdoctoral academic positions:

Lecturer
Physics Dept., University of Thessaloniki
March 1990 - August 1993

Assistant Professor
Physics Dept., University of Thessaloniki
August 1993 – May 2009

Associate Professor
Physics Dept., University of Thessaloniki
May 2009 – today

Teaching Experience

Atomic - Molecular Physics

2nd semester, Physics Dept., A.U.Th, 1990 – 2010

Atomic - Molecular Physics Lab

3rd semester, Physics Dept., A.U.Th, 1982 – 2010

Nuclear Physics Lab

6th & 8th semester, Physics Dept., A.U.Th, 1982 – 2010

Cosmic Radiation Physics

7th semester, Physics Dept., A.U.Th, 2000 – 2010

Physics of Elementary Particles

Postgraduate Studies in Physics Dept., A.U.Th, 2004 – 2010

Seminars

“ Η Φυσική ως βασική επιστήμη και ως επιστήμη σύγχρονων εφαρμογών”

Αμερικανικό Κολέγιο ΑΝΑΤΟΛΙΑ, Θεσσαλονίκη, 19 Φεβρουαρίου 1998

“Κοσμικές ακτίνες”

Εθνικό Μουσείο Εκπαίδευσης, Τμήμα Φυσικών Επιστημών,
Αίθουσα Δημοτικού Συμβουλίου Βέροιας, 13 Μαρτίου 2008

“Κοσμικά Σωματίδια Υψηλών Ενεργειών”

Αστεροσκοπείο, Τμήμα Φυσικής, Α.Π.Θ., 20 Μαΐου 2008

“Positron Physics Studies at the University of Thessaloniki”

Seminar at the Institute of Nuclear Research and Nuclear Energy
Bulgarian Academy of Science, Sofia, September 5th, 2008

Advisor Experience

Supervisor for one Phd thesis: G. Atreidis (not finished yet).

Member of the supervising committees for 6 PhDs: K. Charitidis (1995), T. Lagouri (1997), I. Papadopoulos (1999), G. Polymeris (2006), A. Krepouri (2006) and K. Bachas (2008). Also, member of the supervising committees for 1 PhD which has been not finished yet: T. Vafeiadis.

Books or Contributions to University Books

“Cosmic Radiation”, A.U. Thessaloniki, 2001, 2004

Contributions to:

“Notes on Modern Physics”, A.U. Thessaloniki, 1997

“Atomic Physics Laboratory Courses”, A.U. Thessaloniki, 1995

“Nuclear Physics Laboratory Courses”, A.U. Thessaloniki, 2001

Conferences

1. Α' Πανελλήνιο Συνέδριο Φυσικής, Θεσσαλονίκη, Απρίλιος 1977
2. Γ' Πανελλήνιο Συνέδριο Φυσικής, Καλαμάτα, Σεπτέμβριος 1983
3. European Meeting on Positron Studies of Defects, Wernigerode G.D.R., 1987
4. 8th International Conference on Positron Annihilation, Gent Belgium, Αύγουστος 1988
5. Δ' Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Μαραθώνα, Σεπτέμβριος 1988
6. Ε' Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ξάνθη, Σεπτέμβριος 1989
7. 9th International Conference on Positron Annihilation, Szombately Hungary, Aug. 1991
8. Ζ' Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Θεσσαλονίκη, Σεπτέμβριος 1991
9. Workshop on High Energy Physics, Ιωάννινα, Ιανουάριος 1992
10. Η' Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ιωάννινα, Σεπτέμβριος 1992
11. Workshop on recent developments in High Energy Physics, Thessaloniki, January 1995
12. European Committee for Future Accelerators (ECFA/RC/96/237/Rev), Athens, March 1996
13. 7ο Πανελλήνιο Συμπόσιο Πυρηνικής Φυσικής, Αθήνα, Μάϊος 1996
14. ΙΓ' Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Περαιά Θεσσαλονίκης, Σεπτ.1997
15. Restricted ECFA meeting, Democritos, Athens, 1996
16. Workshop on High Energy Physics, Ioannina, 1996
17. 10ο Πανελλήνιο Συνέδριο Πυρηνικής Φυσικής, Δημόκριτος, Αθήνα 1999
18. Workshop on recent developments in Particle Physics - Cosmology, Thessaloniki, April 1999
19. Four Seas Conference (3rd session). Thessaloniki, April 2002
20. Recent developments in High Energy Physics, Patras, April 2002
21. Recent developments in High Energy Physics and Cosmology, Athens, April 2003
22. Recent advances in Particle and Astroparticle, Chios, April 2004
23. Recent advances in Particle and Astroparticle, Thessaloniki, April 2005

24. ILIAS 3rd Annual Meeting of the European Network on Astroparticle Physics, Gran Sasso, Italy, February-March 2006
25. Recent developments in High Energy Physics and Cosmology, Ioannina, April 2006
26. 2nd Joint ILIAS-CAST-CERN Axion Workshop, Patras, Greece, 2006
27. Balkan Physical Union, BPU-6, Turkey, Aug. 2006
28. XXV Workshop on Recent Developments in High Energy Physics and Cosmology, National Technical University, Athens, Greece, 28-31 March 2007.
29. 3rd Joint ILIAS-CERN-DESY Axion-WIMPs training Workshop, University of Patras, Greece, 19-25 June 2007.
30. TeV Particle Astrophysics, Venice, Italy, 27-31 August 2007.
31. XXVI Workshop on Recent Developments in High Energy Physics and Cosmology, Ancient Olympia, Greece, 16-19 April 2008.
32. 4th Heidelberg International Symposium on High Energy Gamma-Ray Astronomy, Heidelberg, Germany, July 7-11, 2008
33. Balkan Physical Union, BPU-7, 7th General BPU Conference, Alexandroupolis, 9-13 September 2009
34. XXVIII Workshop on Recent Advances in Particle Physics and Cosmology, Thessaloniki, Greece, 25-28 March 2010.

Member in scientific collaborations

1. Positron Annihilation Physics collaboration program with the Bulgarian Academy of Sciences.
2. CPLEAR experiment for the study of CP violation in neutral Kaons.
3. ILIAS Dark Matter Network for the study and the direct and indirect detection of dark matter particles.
4. CAST experiment (CERN Axion Solar Telescope) for the direct detection of solar axions or axion-like particles.

Reports and Proposals:

1. ATLAS Muon Spectrometer – Technical Design Report
ATLAS Collaboration
CERN/LHCC 97-22 (1997)

2. ATLAS Detector and Physics Performance – Technical Design Report I
ATLAS Collaboration (A.Airapetian et al.)
CERN/LHCC 99-14 (1999) 458pp
3. ATLAS Detector and Physics Performance – Technical Design Report II
ATLAS Collaboration (A.Airapetian et al.)
CERN/LHCC 99-15 (1999) 452pp
4. Maintenance and Operation of the ATLAS Detector
ATLAS Collaboration
MoU, CERN –RRB-2002-035 (2002)
5. A solar axion search using a decommissioned LHC test magnet
C.E.Aalseth, ..., A.Liolios ...
Proposal to the SPSC, CERN 99-21, SPSC/P312 (1999)
6. CAST status report: A Solar Axion search using a decommissioned LHC Test Magnet
G.Fanourakis et al.
CERN-SPSC-2001-020, CERN-SPSC-M-666, May 2001

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 co-author of a series of journal and conference 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

Positron annihilation spectroscopy and techniques: positron lifetime spectroscopy, Doppler broadening technique, 3-gamma positron annihilation. Study of structural defects in metal, amorphous alloys, semiconductors and superconductors.

2) CPLEAR Experiment

Joined the CPLEAR collaboration in 1991 as member of the group of Thessaloniki working on the Particle Identification Detector consisting of 32 sectors of two scintillator layers (providing energy loss and time of flight) and a threshold Cerenkov. CPLEAR was searching the CP, T and CPT violation parameters by studying the properties of time evolution of the K^0 - \bar{K}^0 system.

3) ATLAS Experiment

Joined to the ATLAS collaboration from its initial phase (ATLAS Muon Spectrometer – Technical Design Report, ATLAS collaboration, 1997). Construction of 112 BIS monitored drift-tube chambers (MDT) for the ATLAS muon spectrometer, and quality assurance – quality control. The chambers have been constructed at the University of Thessaloniki during a period of five years. They consist of drift tubes that were assembled at the University of Athens and tested at the National Technical University of Athens.

4) CAST Experiment

Joined to the CAST experiment (CERN Solar Axion Telescope) from its initial phase i.e. the conceptual design of the axion telescope, the calculations of its sensitivity, the detector background estimates, e.t.c., which are all described in detail in the NIM paper of 1999 (paper number 43 in the publication list) as well as the proposal to the SPSC in the same year. CAST uses a LHC prototype magnet with a field of $B = 9.0$ T in the interior of two parallel pipes of length $L = 9.26$ m. The magnet is mounted on a moving platform with low-background x-ray detectors on either end, allowing it to track the Sun. Participation in the preparation of the experiment, data taking, upgrading, tests, calibrations e.t.c. Run coordinator in the last period of data taking.

5) Searches for dark matter particles

Indirect dark matter particles detection using novel techniques, i.e. Thermo-Luminescence and Optically Stimulated Luminescence. Searches for solar axions and for axion sources other than the Sun (e.g. Earth). Searches for dark matter particles characteristics i.e. bounds on their lifetime.

6) CTA - Cherenkov Telescope Array

Participation in the CTA project for the detection of high energy cosmic gamma rays

ANASTASIOS LIOLIOS

LIST OF PUBLICATIONS

PhD Thesis

Positron annihilation in amorphous metallic alloys

Aristotle University of Thessaloniki, 1989

PUBLICATIONS in REFEREED SCIENTIFIC JOURNALS

1. Light losses in BGO and BaF₂ scintillators due to positron states

A.Schiltz, C.Eleftheriadis, A.Liolios, M.Chardalas, S.Dedoussis, K.Zioutas, S.Charalambous
Nucl.Instr. and Methods A235 (1985), 37-40

2. Positron Annihilation in thermally treated metallic glasses

A.Liolios, S.Dedoussis, M.Chardalas, S.Charalambous
Crystals Research and Technology, 11 (1987), K199-K202

3. Positron Annihilation studies in ionic crystals

S.Dedoussis, G.Vassileiadis, A.Liolios, C.Touramanis, M.Chardalas, C.Eleftheriadis,
S.Charalambous
Physica Status Solidi (a) 102 (1987), 577-581

4. Temperature dependence of Doppler Broadening of the annihilation line in a high-T_c superconductor

S.Charalambous, M.Chardalas, S.Dedoussis, C.Eleftheriadis, A.Liolios, D.Niarchos
Physics Letters A 128 (1988), 97-99

5. Positron lifetime in amorphous transition metal-metalloid alloys

M.Chardalas, S.Dedoussis, A.Liolios, S.Charalambous, T.Troev
Physica B 167 (1990) 71-74

6. Parameters affecting three-photon positron annihilation spectrometers

S.Charalambous, M.Chardalas, S.Dedoussis, C.Eleftheriadis, A.Liolios
Nucl.Instr. and Methods A300 (1991), 297-302

7. Point Defects in Neutron Transmutation Doped Czochralski-grown Si studied by Positron Annihilation

X.T.Meng, A.Liolios, M.Chardalas, S.Dedoussis, C.Eleftheriadis, S.Charalambous
Phys.Lett.A 157 (1991), 73-77

8. Positron annihilation in the Ba(PO₃)₂ - Na₃AlF₆ glass system

S.Dedoussis, M.Chardalas, A.Liolios, S.Charalambous, A.Shofan, I.Mincov, T.Troev
Materials Science Forum, 105-110 (1992), 953-956

9. Point defects in Neutron Transmutation Doped CZ Silicon

M.Chardalas, S.Dedoussis, A.Liolios, C.Eleftheriadis, S.Charalambous, X.T.Meng
Materials Science Forum, 105-110 (1992), 921 - 924

10. Positron annihilation measurements in the $\text{YBa}_2\text{Cu}_3\text{Cd}_x\text{O}_y$ system

A.Liolios, M.Chardalas, S.Dedoussis, C.Eleftheriadis, L.Papadimitriou, E.Mouhtari,
C.Nikolopoulos, S.Charalambous
Materials Science Forum, 105-110 (1992), 1129- 1132

11. Saturation Magnetization and Positron Annihilation in dependence of the composition of $\text{Fe}_{78-x}\text{Co}_x\text{Si}_9\text{B}_{13}$ Amorphous alloys

A.Liolios, G.Stergioudis, S.Dedoussis, M.Chardalas, C.Eleftheriadis, P.Rentzeperis,
I.Yakinthos, S.Charalambous
Zeitschrift fur Metallkunde 83 (1992), 794 – 796

12. Recent results of the CPLEAR Experiment

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Nuclear Physics A 558 (1993), 437c - 448c

13. A study of T Violation via the Semileptonic Decays of Neutral Kaons in CPLEAR

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Nuclear Physics A 558 (1993), 449c - 456c

14. Two pion Bose - Einstein Correlations in $\bar{p} p$ annihilations at rest

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Nuclear Physics A 558 (1993), 43c - 52c

15. Recent results on CP Violation from the CPLEAR Experiment

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Nuclear Physics B (Proc. Suppl.) 31 (1993), 196 – 199

16. Bose - Einstein correlations in $\bar{p} p$ annihilations at rest

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Zeitschrift fur Physik C 63 (1994) 541-547

17. Recent results from the CPLEAR Experiment

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Physics of Atomic Nuclei 57, 10 (1994) 1842-1853

18. Inclusive measurement of \bar{p} annihilation at rest in gaseous hydrogen to final states containing ρ and f_2

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Zeitschrift fur Physik C 65 (1995) 199 – 205

19. Experimental determination of the energy generated in nuclear cascades by a high energy beam

S.Andriamonje, ..., A. Liolios...
Physics Letters B 348 (1995) 697-709

20. Annealing behaviour of defects in Neutron Transmutation Doped Silicon

X.T.Meng, S.Charalambous, M.Chardalas, S.Dedoussis, C.Eleftheriadis, A.Liolios
Radiation Effects and Defects in Solids, 133 (1995), 97-101

21. Measurement of the $K_L - K_S$ mass difference using semileptonic decays of tagged neutral kaons

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Phys.Lett.B 363 (1995), 237-242

22. Measurement of the CP violation parameter η_{+-} using tagged K^0 and \bar{K}^0

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Phys.Lett.B 363 (1995), 243-248

23. Tests of CPT symmetry and quantum mechanics with experimental data from CPLEAR

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Phys.Lett.B 364 (1995), 239-245

24. Evaluation of the phase of the CP violation parameter η_{+-} and the $K_L - K_S$ mass difference from a correlation analysis of different experiments

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Phys.Lett.B 369 (1996), 367-371

25. Search for CP violation in the decay of neutral kaons to $\pi^+\pi^-\pi^0$

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Phys.Lett.B 370 (1996), 167-173

26. Observation of the CP-conserving $K_S \rightarrow \pi^+\pi^-\pi^0$ decay amplitude

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Phys.Lett.B 374 (1996), 313-318

27. First observation of a particle-antiparticle asymmetry in the decay of neutral kaons into $\pi^0\pi^0$

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Zeitschrift fur Physik C 70, 2 (1996), 211-217

28. The CPLEAR detector at CERN

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)
Nuclear Instruments and Methods, A 379 (1996) 76-100

29. Measurement of CP violation parameters and test of CPT invariance with \bar{K}^0 and K^0 at LEAR

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration).

Nuovo Cim. A109 (1996) 981-989

30. CP, T and CPT violation in the neutral-kaon system in the CPLEAR Experiment

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration).

Phys. Atom. Nucl. 59 (1996) 1529-1541

31. Positron states in gamma irradiated TGS

T.Troev, A.Liolios, S.Dedoussis

Comptes Rendus Bulg. Acad. Sci. v.49, n.7-8 (1996) 27-30

32. Positron annihilation studies in high T_c superconductor $YBa_2Cu_3Cd_xO_y$ ($x = 0, 0.05$)

T.Lagouri, S.Dedoussis, M.Chardalas, A.Liolios

Journal of Radioanalytical and Nuclear Chemistry, 211, 1 (1996), 181- 185

33. Positron annihilation studies in $YBa_2Cu_3O_x$ ($6 < x \leq 7$)

T.Lagouri, S.Dedoussis, M.Chardalas, A.Liolios

Journal of Radioanalytical and Nuclear Chemistry, 211, 1 (1996), 187- 191

34. Positron annihilation studies in high T_c superconductors $RBa_2Cu_3O_y$

R: La, Nd, Sm, Eu, Gd, Dy, Ho, Y, Er

T.Lagouri, S.Dedoussis, M.Chardalas, A.Liolios

Phys. Lett. A 229 (1997), 259 -261

35. Measurement of η_{+-} with the CPLEAR experiment

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)

Nuclear Physics B (Proc. Suppl.) 56A (1997), 371 - 376

36. Experimental measurement of the $K_S K_S / K_S K_L$ ratio in antiproton annihilations at rest in gaseous hydrogen at 15 and 27 bar

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)

Physics Letters B 403 (1997), 383-389

37. CPLEAR results on the CP parameters of neutral kaons decaying into $\pi^+ \pi^- \pi^0$

R.Adler, ..., A.Liolios, .. (CPLEAR Collaboration)

Physics Letters B 407 (1997), 193-200

38. An upper limit for the branching ratio of the decay $K_S \rightarrow e^+ e^-$

A.Angelopoulos, ..., A.Liolios, ... (CPLEAR Collaboration)

Physics Letters B 413 (1997), 232-238

39. Measurement of the neutral kaon regeneration amplitude in carbon at momenta below 1 GeV/c

A.Angelopoulos, ..., A.Liolios, ... (CPLEAR Collaboration)

Physics Letters B 413 (1997), 422-430

40. The CPLEAR Experiment at CERN

R.Adler, ..., A.Liolios, .. (CLEAR Collaboration)
Nuclear Physics B (Proc. Suppl.) 59 (1997), 182-191

41. Direct determination of two-pion correlations for $\bar{p} p \rightarrow 2\pi^+ 2\pi^-$ annihilation at rest

A.Angelopoulos,..., A.Liolios,...(CLEAR Collaboration)
European Physical Journal C1 (1998), 139-148

42. Measurement of the CP violation parameter η_{00} using tagged \bar{K}^0 and K^0

A.Angelopoulos,..., A.Liolios,...(CLEAR Collaboration)
Physics Letters B 420 (1998), 191-195

43. A decommissioned LHC model magnet as an axion telescope

K.Zioutas, ..., A.Liolios ...
Nuclear Instruments and Methods, A 425 (1999), 480-487

44. ATLAS muon precision chamber construction at the University of Thessaloniki

S.Dedousis, A.Krepouri, A.Liolios, P.Paschalias, C.Petridou, D.Sampsonidis, C.Valderanis, I.Vichou, J.Wotschack, K.Bouzakis, I.Tsiafis.
Nuclear Science Symp.Conf.Rec., 2001 IEEE, Vol 1, pp.16-20 (2001)

45. The CERN Axion Solar Telescope (CAST)

C.E. Aalseth, ..., A.Liolios,.. , (CAST Collaboration)
Nucl.Phys.B (Proc.Suppl.) 110 (2002) 85-87

46. The CERN Axion Solar Telescope (CAST): Status and Prospects

I.Irastorza, ..., A.Liolios, ... (CAST Collaboration)
Nucl.Phys.B (Proc.Suppl.) 114 (2003) 75-80,

47. Extensive performance studies for the ATLAS BIS-MDT Precision Muon Chambers with Cosmic Rays

Th.Alexopoulos, ..., A.Liolios ...
Trans. on Nuclear Science, IEEE, Vol 50, 6, pp.2420-2425 (2003)

48. Aging studies for the ATLAS monitored drift tubes using alpha particles

D.Sampsonidis, M.Manolopoulou, Ch.Petridou, A.Liolios
Nuclear Science Symp.Conf.Rec., 2004 IEEE, Vol 5, pp.3719-3722 (2004)

49. Study of the response of the ATLAS Monitored Drift Tubes to heavily ionizing particles and of their performance with cosmic rays

D. Sampsonidis, A.Krepouri, Ch.Petridou, M.Manolopoulou, A.Liolios, S.Dedoussis
Nuclear Instruments and Methods in Physics Research, A 535, 1-2, 260-264 (2004)

50. Study of the performance of the ATLAS monitored drift tube chambers under the influence of heavily ionizing α -particles

D.Sampsonidis, M.Manolopoulou, Ch.Petridou, A.Liolios, C.Anastopoulos
Nuclear Science Symp.Conf.Rec., 2004 IEEE, Vol 4, pp.2068-2071 (2004)

51. The CERN Axion Solar Telescope (CAST): An update

S. Andriamonje, ..., A.Liolios, ... (CAST Collaboration)
Nucl.Phys.B (Proc.Suppl.) 138:41-44 (2005)

52. First Results from the CERN Axion Solar Telescope

K. Zioutas, ..., A.Liolios, ... (CAST Collaboration)
Phys. Rev. Lett. 94 (2005) 121301

53. First Results from the CAST experiment

T.Dafni, ..., A.Liolios, .. (CAST Collaboration).
J. of Phys: conf. ser. 39 (2006) 117-119

54. Minerals as Time-Integrating Luminescence Detectors for setting bounds on Dark Matter Particles Characteristics

G.Polymeris, G. Kitis, A.Liolios, N.Tsirliganis, K.Zioutas
Nuclear Instruments and Methods in Physics Research, A 562, 207-213 (2006)

55. Axions from the Earth

A.Liolios
Physics Letters B 645 (2007), 113-118

56. An improved limit on the axion-photon coupling from the CAST experiment

S. Andriamonje, ..., A.Liolios, ... (CAST Collaboration)
J. Cosmol. Astropart. Phys. JCAP 04 (2007) 010

57. Prospects for the CERN Axion Solar Telescope sensitivity to 14.4 keV axions

K.Jakovicic, ..., A.Liolios, ... (CAST Collaboration)
Nuclear Instruments and Methods in Physics Research, A580 (2007)37-39

58. The construction and the quality assurance-quality control of the 112 MDT-Barrel Inner Small precision chambers of the ATLAS Muon Spectrometer

K. Bachas, K. Bouzakis, A. Krepouri, A. Liolios, Ch. Petridou, D. Sampsonidis,
I. Tsiafis, Ch. Valderanis and J. Wotschack
Nuclear Instruments and Methods in Physics Research, A581 (2007)198-201

59. Searching for decaying axionlike dark matter from clusters of galaxies

S.Riemer-Sorensen, K.Zioutas, S.H.Hansen, K.Pedersen, H.Dahle, A.Liolios
Phys. Rev. Lett. 99 (2007) 131301

60. The CAST Experiment

J. Ruz, ..., A. Liolios,... (CAST Collaboration)
Journal of Physics: Conference Series **110** (2008) 062023

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Σ.Δεδούσης, Χ.Ελευθεριάδης, Α.Λιόλιος, Δ.Νιάρχος, Σ.Χαραλάμπους, Μ.Χαρδάλας
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