

CURRICULUM VITAE

March 2012

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
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

“Neutrinos and Axions from Earth and Planets”

3rd Joint ILIAS-CERN-DESY Axion-WIMPs Training Workshop,
University of Patras, 19-25 June 2007

“Κοσμικές ακτίνες”

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

“Κοσμικά Σωματίδια Υψηλών Ενέργειών”

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

“Cosmic rays and atmospheric neutrons”

Collaboration meeting on “Large volume spherical proportional counter and applications”
Aristotle Univ. of Thessaloniki and DAPNIA CEA-Saclay, Thessaloniki, 27-28 April 2009

“Κοσμικές Ακτίνες και Αστροσωματιδιακή Φυσική”

Θέρμη Θεσσαλονίκης, Κέντρο Διάδοσης Επιστημών και Μουσείο Τεχνολογίας ΝΟΗΣΙΣ
Εκδήλωση ΤΑ ΠΡΟΣΩΠΙΑ ΤΗΣ ΕΠΙΣΤΗΜΗΣ, Διοργάνωση Ένωσης Ελλήνων Φυσικών -
Παράρτημα Κεντρικής και Δυτικής Μακεδονίας, 20 Φεβρουαρίου 2011

“Κοσμικές Ακτίνες και Αστροσωματιδιακή Φυσική”

Άγιος Νικόλαος Ναούσης, Εκδήλωση Η ΜΑΚΕΔΟΝΙΑ ΥΠΟΔΕΧΕΤΑΙ ΤΗΝ ΓΝΩΣΗ, Διοργάνωση Ένωσης Ελλήνων Φυσικών – Δήμου Ναούσης, 13 Μαρτίου 2011

“Παρατηρώντας τον κόσμο μέσα από τα μάτια της Σύγχρονης Φυσικής”

Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Διάλεξη σε μαθητές, Διοργάνωση Ένωσης Ελλήνων Φυσικών - Παράρτημα Κεντρικής και Δυτικής Μακεδονίας, 4 Ιουλίου 2011

“Στα μονοπάτια της Αστροσωματιδιακής Φυσικής”

Θεσσαλονίκη, Εκδήλωση Η ΦΥΣΙΚΗ ΜΑΓΕΥΕΙ, της Ένωσης Ελλήνων Φυσικών, 10 Μαρτίου 2012

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, Μάιος 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.
35. XXIX Workshop on Recent Advances in Particle Physics and Cosmology, Univ. of Patras, Greece, 14-16 April 2011.

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.

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

7) ASTRONEU – detection of cosmic neutrinos

Participation in the “ASTRONEU” project for the detection of high energy cosmic neutrinos

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, .. (CPLEAR 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,...(CPLEAR 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,...(CPLEAR 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

61. The ATLAS Experiment at the CERN Large Hadron Collider

G. Aad et al. (The ATLAS Collaboration)

62. Search for low Energy solar Axions with CAST

G. Cantatore (for the CAST Collaboration)
arXiv:0809.4581v2 [hep-ex], 29 Sep 2008

63. Solar axion search with the CAST experiment

E. Arik, ..., A. Liolios,... (CAST Collaboration)
Proceedings of 34th International Conference on High Energy Physics (ICHEP 2008),
Philadelphia, Pennsylvania, 30 Jul - 5 Aug 2008
e-Print: arXiv:0810.1874 [hep-ex]

64. Probing eV-scale axions with CAST

E. Arik, ..., A. Liolios,... (CAST Collaboration)
Journal Cosmology and Astroparticle, JCAP 02 (2009) 008

65. Expected Performance of the ATLAS Experiment - Detector, Trigger and Physics

G. Aad et al. (The ATLAS Collaboration) CERN-OPEN-2008-020 (December 2008);
arXiv:0901.0512 [hep-ex]

66. Luminescence dating of the top of a deep water core from the NESTOR site near the Hellenic Trench, east Mediterranean Sea

G. S. Polymeris, G. Kitis, A. K. Liolios, A. Sakalis, K. Zioutas, E. G. Anassontzis, N. C. Tsirliganis
Quaternary Geochronology 4 (2009) 68–81

67. Search for 14.4 keV solar axions emitted in the M1-transition of ^{57}Fe nuclei with CAST

S. Andriamonje , ..., A. Liolios,... (CAST Collaboration)
Journal Cosmology and Astroparticle, JCAP (2009) 0912:002

68. Search for solar axion emission from ^7Li and $\text{D}(p, \gamma)^3\text{He}$ nuclear decays with the CAST γ -ray calorimeter

S. Andriamonje , ..., A. Liolios,... (CAST Collaboration)
Journal of Cosmology and Astroparticle Physics, JCAP 03 (2010) 032 p.p. 1-19

69. Readiness of the ATLAS Liquid Argon Calorimeter for LHC Collisions

Aad, G., ..., Liolios, A., ... (ATLAS Collaboration)
Eur.Phys.J.C70 (2010), pp. 723-753

70. Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons

Aad, G., ..., Liolios, A., ... (ATLAS Collaboration)
Eur.Phys.J.C70 (2010), pp. 755-785

71. Design concepts for the Cherenkov Telescope Array CTA: An advanced facility for ground-based high-energy gamma-ray astronomy

Actis, M., ..., Liolios, A., ... (CTA Collaboration)

Experimental Astronomy, 32 (3), (2011) pp. 193-316

72. Search for Sub-eV Mass Solar Axions by the CERN Axion Solar Telescope with ^3He Buffer Gas

Arik, M., ..., Liolios, A., ... (CAST Collaboration)

Physical Review Letters, 107 (2011) 261302

PUBLICATIONS in PROCEEDINGS of INTERNATIONAL SCIENTIFIC CONFERENCES

B1. Multi three-photon spectroscopy sum energy analyser

S.Dedoussis, M.Chardalas, C.Eleftheriadis, A.Liolios, A.Schiltz, S.Charalambous
“Positron Annihilation”, Proc.7th Int. Conf. on positron annihilation,
(eds. P.Jain, R.Singru, K.Gopinathan, 1985, World Sc.P.Co, Singapore), p.807

B2. Positron Annihilation studies in amorphous $\text{Fe}_{40}\text{Ni}_{40}\text{B}_{20}$ and $\text{Fe}_{40}\text{Ni}_{38}\text{Mo}_4\text{B}_{18}$

A.Schiltz, A.Liolios, C.Eleftheriadis, M.Chardalas, S.Dedoussis, S.Charalambous
“Positron Annihilation”, Proc.7th Int. Conf. on positron annihilation,
(eds. P.Jain, R.Singru, K.Gopinathan, 1985, World Sc.P.Co, Singapore), p.122

B3. Positron Annihilation parameters in BGO

C.Eleftheriadis, M.Chardalas, S.Dedoussis, A.Liolios, A.Schiltz, S.Charalambous
“Positron Annihilation”, Proc.7th Int. Conf. on positron annihilation,
(eds. P.Jain, R.Singru, K.Gopinathan, 1985, World Sc.P.Co, Singapore), p.759

B4. Positron annihilation study of the YBaCuO high-Tc superconductor

A.Liolios, S.Dedoussis, M.Chardalas, C.Eleftheriadis, D.Niarchos, S.Charalambous
Proc. 8th Int. Conf. on Positron Annihilation, Gent, Belgium 1988, p. 895

B5. Positron annihilation in a FeNi-based amorphous alloy at low temperatures

A.K.Liolios, M.Chardalas, S.Dedoussis, S.Charalambous
Proc. 8th Int. Conf. on Positron Annihilation, Gent, Belgium 1988, p. 386

B6. Preliminary results from the analysis of K^0 and \bar{K}^0 semileptonic decays from the CPLEAR Collaboration

R.Adler et al. (CPLEAR Collaboration)
Proc. of XXVI International Conference on High Energy Physics, Dallas, Texas, 1992

B7. CP Violation using $K^0\bar{K}^0$ interferometry

R.Adler et al. (CPLEAR Collaboration)
Proc. of XIII International Conference on Physics in Collision, Heidelberg, Germany, 1993

B8. CP, T and CPT searches at CPLEAR

R.Adler et al. (CPLEAR Collaboration)
Proceedings, Les Rencontres de Physique de la Vallee d’Aoste,
Results and Perspectives in Particle Physics, La Tuile, March 1994

B9. The study of the CP, T and CPT symmetries in the CPLEAR experiment

R.Adler et al. (CPLEAR Collaboration)
Proc. XXIXth Rencontres de Moriond, Electroweak Interactions and Unified Theories,
Meribel, France, March 1994, Ed: J.Tran Thanh Van, Eds Frontieres (1994), p. 371-378

B10. Improvements in the CPLEAR Trigger and Data Acquisition system

R.Adler et al. (CPLEAR Collaboration)
Proceedings, Conference on Computing in High Energy Physics,
San Francisco, USA, April 1994, Editor S.C. Loken, p. 91-96

B12. CP, T and CPT tests in neutral Kaon decays using tagged K^0, \bar{K}^0 at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Proc. 14th International Conference on Few Body Problems in Physics,
Williamsburg, VA, USA May 1994, Editor Frank Gross, AIP (1995), p. 816-821

B13. Recent results of CPLEAR experiment

R.Adler et al. (CPLEAR Collaboration)

Proceedings, 5th Conference on the Intersections of Particle and Nuclear Physics, St.Petersburg, Florida,
USA, June 1994, Editor S.J. Seestrom, AIP Conference Proceedings 388 (1995), p. 192-197

B13. Experimental tests of CP, T and CPT Symmetries and Quantum Mechanics at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

XVIII International Workshop on High Energy Physics and Field Theory,
Protvino, Russia, June 1995

B14. CP, T and CPT violations in the neutral kaon system at the CPLEAR Experiment

R.Adler et al. (CPLEAR Collaboration)

Proceedings of the XIVth Moriond Workshop, Particle Astrophysics, Atomic Physics and Gravitation,
Villars sur Ollon, Switzerland, January 22-29, 1994

Editors J. Tran Thanh Van, G. Fontaine, E. Hinds, Editions Frontieres, (1995), p. 299-304

B15. Recent results of the CPLEAR Experiment

R.Adler et al. (CPLEAR Collaboration)

Proceedings of the XIVth Moriond Workshop, Particle Astrophysics, Atomic Physics and Gravitation,
Villars sur Ollon, Switzerland, January 22-29, 1994

Editors J. Tran Thanh Van, G. Fontaine, E. Hinds, Editions Frontieres, (1995), p. 305-310

B16. CP, T and CPT violation searches at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Proceedings of the Rencontres de physique de la Vallee d'Aoste : results and perspectives in particle
physics

La Thuile, Vallee d'Aoste, March 6-14, 1994

Editor M. Greco, Editions Frontieres, p. 155-167

B17. Multi-level trigger and data acquisition system of the CPLEAR Experiment

R.Adler et al. (CPLEAR Collaboration)

Proc. ESONE Int.Conf. RTD'94, on real time data with emphasis on distributed front-end processing,
JINR, Dubna, Russia, June 27-July 1, 1994

Editors R. Pose, P.U. ten Kate, E.W.A. Lingeman, p. 69-75

B18. Results on CP, T and CPT violation in the semi-leptonic decays of neutral kaons

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

3rd biennial conference on Low-Energy Antiproton Physics,

Bled, Slovenia, September 12-17, 1994

Editors G. Kernel, P. Krizan, M. Mikuz, World Scientific (1995), p. 427-435

B19. Measurements of CP violation in $K^0(\bar{K}^0)$ two-pion decays at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

3rd biennial conference on Low-Energy Antiproton Physics,

Bled, Slovenia, September 12-17, 1994

Editors G. Kernel, P. Krizan, M. Mikuz, World Scientific (1995), p. 436-441

B20. A study of neutral kaon decays to $\pi^+\pi^-\pi^0$ with the CPLEAR detector

R.Adler et al. (CPLEAR Collaboration)

3rd biennial conference on Low-Energy Antiproton Physics,

Bled, Slovenia, September 12-17, 1994

Editors G. Kernel, P. Krizan, M. Mikuz, World Scientific (1995), p. 442-451

B21. Measurement of CP & T violation parameters in the neutral kaon system at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Proceedings of the 27th International Conference on High Energy Physics,

Glasgow, U.K., July 20-27, 1994

Editors I.O.P. Publishing Ltd (1995), p. 743-745

B22. Recent results of CP, T and CPT tests with the CPLEAR Experiment

R.Adler et al. (CPLEAR Collaboration)

Proc. 8th Meeting of the Division of Particles and Fields of the American Society (DPF'94),

Albuquerque, USA, August 2-6, 1994

Editor S. Seidel, The Albuquerque Meeting, Vol. 1, World Scientific (1995), p. 1005-1011

B23. Direct evidence for T-violation in the neutral kaon system

R.Adler et al. (CPLEAR Collaboration)

XXXth Rencontres de Moriond - Dark matter in cosmology, clock and tests of fundamental laws conference, Villars sur Ollon, Switzerland, January 21-28, 1995

B24. Results from CP, T and CPT measurements at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Proc. XXXth Rencontres de Moriond - '95 Electroweak interactions and unified theories

Les Arcs, France, March 11-18, 1995

Editor J. Tran Thanh Van, Editions Frontieres (1995), p. 389-393

B25. CP test with \bar{K}^0 and K^0 at LEAR

R.Adler et al. (CPLEAR Collaboration)

Proceedings of the 23rd INS International Symposium on Nuclear and Particle Physics with Meson Beams in the 1 GeV/c Region

Tokyo, Japan, March 15-18, 1995

Editors S. Sugimoto and O. Hashimoto, Universal Academy Press, Inc, (1995), p. 79-88

B26. Studies of CP, T and CPT symmetries from the CPLEAR Experiment

R.Adler et al. (CPLEAR Collaboration)

Proceedings of Les Rencontres de Physique de la Vallee d'Aoste - Results and perspectives in particle physics, La Thuile, Aosta Valley, Italy, March 5-11, 1995, Eds M. Greco, p. 385-396

B27. Measurement of the difference of the K^0 - \bar{K}^0 forward scattering amplitudes in carbon at low momentum with the CPLEAR detector

R.Adler et al. (CPLEAR Collaboration)

Proceedings of the second workshop on physics and detectors for DAFNE

Frascati, Italy, April 4-7, 1995

Eds R.Baldini, F.Bossi, G.Capon, G.Pancheri, Frascati Physics Ser., vol.IV (1995), p.635-645

B28. Measurements of CP and T violation parameters in the neutral kaon system at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Proceedings of the second workshop on physics and detectors for DAFNE

Frascati, Italy, April 4-7, 1995

Eds R.Baldini, F.Bossi, G.Capon, G.Pancheri, Frascati Physics Ser., vol.IV (1995), p. 55-72

B29. Experimental tests of CPT symmetry and quantum mechanics at CPLEAR

R.Adler,.....(CPLEAR Collaboration) and N.E. Mavromatos et al.

Proceedings of the second workshop on physics and detectors for DAFNE, Frascati, Italy, April 4-7, 1995, Eds R. Baldini, F. Bossi, G. Capon, G. Pancheri, Frascati Physics Series, vol.

IV (1995), p. 269-286

B30. Measurement of CP violation parameters and tests of CPT invariance with \bar{K}^0 & K^0 at LEAR

R.Adler et al. (CPLEAR Collaboration)

6th International Symposium on heavy flavour physics, Pisa, Italy, June 6-10, 1995

B31. Direct Measurement of T violation in the neutral kaon system using tagged K^0 , \bar{K}^0 at LEAR

R.Adler et al. (CPLEAR Collaboration)

Proceedings of the IV International symposium on weak and electromagnetic interactions in nuclei (WEIN'95), Osaka, Japan, June 12-14, 1995

Editors H. Ejiri, T. Kishimoto, T. Sato, World Scientific (1995), p. 52-57

B32. Measurements of CP and T violation parameters in the neutral kaon system at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Four Seas Conference, Trieste, Italy, June 26-July 1, 1995

B33. Experimental tests of CP, T and CPT symmetries and quantum mechanics at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Proceedings of the XVIII workshop on high energy physics and field theory

Protvino, Russia, June 26-30, 1995

Eds V.Petrov, A.Samokhin, R.Rogalyov, Quanta Relativity Gravitation (1996), p. 182-192

B34. Selected results from the CPLEAR Experiment

R.Adler et al. (CPLEAR Collaboration)

Proc.of the International Europhysics conference on high energy physics (EPS/HEP'95)

Brussels, Belgium, July 27-August 2, 1995

Editors J. Lemonne, C. Vander Velde, F. Verbeure, World Scientific (1996), p.159-161

B35. CP, T and CPT violation in the neutral kaon system at the CPLEAR Experiment

R.Adler et al. (CPLEAR Collaboration)

3rd Conf. on nucleon-antinucleon physics (NAN'95), Moscow, Russia, Sept. 11-16, 1995

B36. Bose-Einstein pion correlations

R.Adler et al. (CPLEAR Collaboration)

3rd conference on nucleon-antinucleon physics (NAN'95), Moscow, Russia, Sep 11-16, 1995

B37. Recent results of the CPLEAR experiment

R.Adler et al. (CPLEAR Collaboration)

Proceedings of WIN'95-XVth workshop on weak interactions and neutrinos

Talloires, France, September 4-8, 1995

Editors G. Bonneaud, V. Brisson, T. Kafka and J. Schneps, Vol. 2 (1995), p.831-839

B38. The CPLEAR project at CERN : measurement of CP, T and CPT in the neutral kaon system

R.Adler et al. (CPLEAR Collaboration)

5th Hellenic school and workshops on elementary particle physics

Corfu, Greece, September 3-24, 1995

B39. Measurements of T, CP and CPT violation parameters in the neutral kaon system at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Workshop on parity and time reversal violation in compound nuclear states and related topics

Trento, Italy, October 16-27, 1995

B40. Test of CPT invariance with K^0 and \bar{K}^0 at LEAR

R.Adler et al. (CPLEAR Collaboration)

Les Rencontres de la Valle d'Aoste, La Thuile, March 3-9, 1996

B41. Tests of CPT with CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Proceedings of the XXXIst Rencontres de Moriond - '96 Electroweak interactions and unified theories, Les Arcs, France, March 16-23, 1996

Editor J. Tran Thanh Van, Editions Frontieres (1996), p. 309-316

B42. Study of CP, T and CPT symmetries in the neutral kaon system at CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Workshop on K physics, Orsay, France, May 30-June 4, 1996

B43. Contribution of CPLEAR to the physics of the neutral kaon system

R.Adler et al. (CPLEAR Collaboration)

Workshop on K physics, Orsay, France, May 30-June 4, 1996, (CERN-PPE/96-189)

B44. Studies of CP, T and CPT symmetries from the CPLEAR Experiment

R.Adler et al. (CPLEAR Collaboration)

XIV International conference on particles and nuclei (PANIC'96)

Williamsburg, VA, USA, May 22-28, 1996

B45. Recent CPLEAR results on CP and CPT violation

R.Adler et al. (CPLEAR Collaboration)

28th International conference on high energy physics, Warsaw, Poland, July 25-31, 1996

B46. Upper limit for the branching ratio of $K_s \rightarrow e^+ e^-$ decay

R.Adler et al. (CPLEAR Collaboration)

Nuclear Physics B (Proc. Suppl.) 56A (1997) 178-182

4th Biennial conference on low-energy antiproton physics (LEAP'96)

Dinkelsbühl, Germany, August 27-31, 1996

B47. Measurement of η^+ with the CPLEAR experiment

R.Adler et al. (CPLEAR Collaboration)

4th Biennial conference on low-energy antiproton physics (LEAP'96)

Dinkelsbühl, Germany, August 27-31, 1996

B48. Results of CPLEAR

R.Adler et al. (CPLEAR Collaboration)

Nuclear Physics B (Proc. Suppl.) 56A (1997) 361-370

4th Biennial conference on low-energy antiproton physics (LEAP'96)
Dinkelsbühl, Germany, August 27-31, 1996

B49. Tests of CP, T and CPT symmetry with CPLEAR Experiment

R.Adler et al. (CPLEAR Collaboration)
Workshop on heavy quarks at fixed target
Rheinfels Castle, St Goar, Germany, October 3-6, 1996

B50. Measurement of CP, T and CPT violation parameters in the neutral kaon system at CPLEAR

Michael Carroll (R.Adler et al., CPLEAR Collaboration)
Nuclear Physics A626 (1997) 157c 165c
3rd International conference on nuclear physics at storage rings (Stori'96)
Bernkastel-Kues, Germany, September 30 - October 4, 1996

B51. The CPLEAR Experiment at CERN

R.Adler et al. (CPLEAR Collaboration)
4th KEK topical conference on flavour physics
KEK, Tsukuba, 305 Japan, October 29-31, 1996

B52. Upper limit for the branching ratio of $K_s \rightarrow e^+e^-$ decay

A.Angelopoulos et al. (CPLEAR Collaboration)
Upton 1997, Hadron spectroscopy, Aug.1997, pp.611-614

B53. CPLEAR Experiment at CERN: Measurement of CP, T and CPT in the neutral kaon system

R.Adler et al. (CPLEAR Collaboration)
6th Conf.on the Intersections of Particle and Nuclear Physics (CIPANP 97), Big Sky 1997, pp.372-382

B54. Search for Axions or Axion-like particles

C.Aalseth et al.
Advances in Nuclear Physics and related areas, Thessaloniki, 8-12 Jul. 1997, pp.692-697

B55. The CERN Axion Solar Telescope (CAST)

C.Aalseth et al.
TAUP 2001: Topics in Astroparticle and Underground Physics
Assergi, Italy, 8-12 Sep. 2001, pp.85-87
and in "Faro 2002, New words in Astroparticle Physics", pp. 103-109

B56. The CERN Axion Solar Telescope (CAST): Status and Prospects

I.Irastortza et al. (CAST Collaboration)
Identification of Dark Matter, Proc. of 4th Int. Workshop of IDM 2002, York, England, 2-6 Sep. 2002, pp. 402-407
Eds: N.Spooner, V.Kudryavtsev, Word Scientific, 2003

B57. The CERN Axion Solar Telescope (CAST): Status and Prospects

I.Irastortza et al. (CAST Collaboration)
Fundamental Physics, Proc. 30th Int. Meeting on Fundamental Physics (IMFP 2002), Jaca, Spain, 28 Jan-1 Feb 2002, pp.75-80

B58. CAST: A search for Solar Axion at CERN

J.Collar et al. (CAST Collaboration)

Conference on Astronomical Telescopes and Instrumentation, Waikoloa, Hawaii, 22-28 Aug. 2002, e-Print Archive: hep-ex:0304024

B59. Axion Searches at CERN with the CAST Telescope

C.Eleftheriadis et al. (CAST Collaboration)

Proc. 10th Greek Relativity Meeting on New Developments in Gravity, Chalkidiki, Greece, 30 May- 2 Jun 2002, pp.116-120

B60. The CERN Axion Solar Telescope (CAST): an update

S.Andriamonje et al. (CAST Collaboration)

TAUP 2003: Topics in Astroparticle and Underground Physics, Seattle, Wasington, 5-9 Sep. 2003, pp.85-87 and in “Faro 2003, New words in Astroparticle Physics”, pp. 41-44

B61. 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

10th Vienna Conference on Instrumentation (VCI), 16-21 February, Vienna, Austria (2004)

B62. First Results from the CERN Axion Solar Telescope (CAST)

S.Andriamonje et al. (CAST Collaboration)

IDM 2004: 5th Intern. Workshop on the Identification of Dark Matter, Edinburgh, Scotland, UK, 6-10 Sep. 2004, pp.414-419

B63. Search for Solar Axions: the CAST experiment at CERN

B.Beltran et al. (CAST Collaboration)

Proc. of 40th Rencontres de Moriond on Electroweak Interactions and Unified Theories, La Thuile, Aosta Valley, Italy, 5-12 March 2005
e-Print Archive: hep-ex/0507007

B64. Temperature dependence study of crystallization of Fe₇₈Si₉B₁₃ amorphous alloy by positron lifetime method and DTA

I.Mincov, B.Shivachev, T.Troev, V.Ganev, A.Liolios, Sp.Dedoussis, M.Chardalas

Proc. of second Balkan Conference on Glass Science and Technology, (2005) v.1, 258-263

B65. Search for solar axions: The CAST experiment

B. Latic, ..., A.Liolios, ... (CAST Collaboration)

Int. Europhysics Conf. on High Energy Physics, Lisboa, Portugal, 21-27 July 2005
Proc. of Science – HEP2005, 022 (2006) 1-4

B66. Search for solar axions: The CAST experiment

S. Andriamonje, ..., A.Liolios, ... (CAST Collaboration)

Int. Workshop on the Dark Side of the Universe, Madrid, Spain, 20-24 Jun 2006
AIP Conference Proceedings -- Volume 878, pp. 395-401

B67. First Results from the CAST CERN experiment

T.Dafni et al. (CAST Collaboration)

TAUP 2005: Topics in Astroparticle and Underground Physics, Zaragoza, Spain, 10-14 Sep. 2005, publ. in J.Phys.Conf.Ser.39:117-119 (2006)

B68. The Search for Solar Axions in the CAST experiment

D.Kang et al. (CAST Collaboration)

41st Rencontres de Moriond on Electroweak Interactions and Unified Theories,
La Thuile, Aosta Valley, Italy, 11-18 March 2006
e-Print Archive: hep-ex/0605049

B69. Status of the Solar Axion Solar Search with CAST

I.Irastortza et al.

Intern. Symp. on Detector development for Particle, Astroparticle and Synchrotron Radiation Experiments (SNIC 2006), Menlo Park, California, 3-6 Apr. 2006
e-conf C0604032:0036, 2006

B70. Setting Bounds on Dark Matter Particle Characteristics by Studying Terrestrial Materials

A.Liolios, G.Kitis, G.Polymeris, N.Tsirliganis, K.Zioutas

6th Balkan Physical Union Conference (BPU-6), Istanbul, Turkey, Aug. 2006

B71. Results on Axion Physics from CAST Experiment at CERN

C.Eleftheriadis, ..., A.Liolios, ... (CAST Collaboration)

e-print, arXiv:hep-ex/0706.0637v1 (2007) (13 pages)

Proc. Les Rencontres de Physique de la Vallée d'Aoste, La Thuile, 2007, Italy

B72. CAST - A CERN Experiment to Search for Solar Axions

E.Arik, ..., A.Liolios, ... (CAST Collaboration)

Sixth International Conference of the Balkan Physical Union

AIP Conference Proceedings -- April 23, 2007 -- Volume 899, pp. 37-40

B73. The search for the direct detection of solar axions by CAST experiment

A. Liolios (for CAST Collaboration)

TeV Particle Astrophysics, Venice, Italy, 27-31 August 2007.

<http://www.pd.infn.it/TeV/programme.html>

B74. Search for low energy solar axions with CAST experiment

J. Cantatore (for CAST Collaboration)

Patras 2008, e-print: arXiv:0809.4581v2 [hep-ex] 29 Sep 2008

B75. Planetary Produced Axionlike Particles and Gamma-Ray Flashes

A. Liolios

AIP Conf. Proc. 1085, 4th Heidelberg Int. Meeting on High Energy Gamma-Ray Astronomy, edited by F.

A. Aharonian, W. Hofmann, F.M. Rieger, 2009, p.p. 230-233

B76. Cosmic radiation intensity measurements using TL dosimeters at various mountain altitudes

Sdrolia, A., Sfamba, I., Liolios, A., Kitis, G.

AIP Conference Proceedings, 1203 (2010), pp. 40-42

B77. Latest results and prospects of the CERN Axion Solar Telescope

Irastorza, G., ..., Liolios, A., ... (CAST Collaboration)

Journal of Physics: Conference Series, 309 (1), (2011), art. no. 012001

B78. Energetic axion-like particle production in galaxies

Manousos, A., Liolios, A., Eleftheriadis, C.

PoS IDM2010, 8th International Workshop on the Identification of Dark Matter (2011) pp. 034

Ανακοινώσεις σε Ελληνικά Συνέδρια

- Γ1. **“Μελέτη του υπεραγωγού $\text{YBa}_2\text{Cu}_3\text{O}_7$ με εξαύλωση ποζιτρονίων”**
Σ.Δεδούσης, Χ.Ελευθεριάδης, Α.Λιόλιος, Δ.Νιάρχος, Σ.Χαραλάμπους, Μ.Χαρδάλας
Γ’ Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Πάτρα 1987
- Γ2. **“Temperature dependence of Doppler Broadening of the annihilation line in a high-Tc superconductor”**
S.Charalambous, M.Chardalas, S.Dedoussis, C.Eleftheriadis, A.Liolios, D.Niarchos
8th Greek-Bulgarian Symposium on Semiconductor and Solid State Physics, Thessaloniki 1987
- Γ3. **“Μελέτη του υπεραγωγού YBaCuO με εξαύλωση ποζιτρονίων”**
Α.Λιόλιος, Σ.Δεδούσης, Μ.Χαρδάλας, Χ.Ελευθεριάδης, Σ.Χαραλάμπους, Δ.Νιάρχος
Δ’ Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Αθήνα 1988
- Γ4. **“Επίδραση της δομικής χαλάρωσης των αμόρφων κραμάτων στα χαρακτηριστικά εξαύλωσης των ποζιτρονίων”**
Α.Λιόλιος, Μ.Χαρδάλας, Σ.Δεδούσης, Σ.Χαραλάμπους
Δ’ Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Αθήνα 1988
- Γ5. **“Μελέτη της δομικής χαλάρωσης και της κρυστάλλωσης των αμόρφων κραμάτων $\text{Fe}_{74}\text{Co}_4\text{Si}_9\text{B}_{13}$ και $\text{Co}_{78}\text{Si}_9\text{B}_{13}$ ”**
Α.Λιόλιος, Μ.Χαρδάλας, Σ.Δεδούσης, Χ.Ελευθεριάδης, Σ.Χαραλάμπους, Γ.Στεργιούδης, Π.Ρεντζεπέρης, Ι.Υάκινθος
V’ Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ξάνθη 1989
- Γ6. **“Μελέτη των αμόρφων κραμάτων $\text{Fe}_{78-x}\text{Co}_x\text{Si}_9\text{B}_{13}$ σαν συνάρτηση της σχετικής αναλογίας των μεταβατικών μετάλλων”**
Γ.Στεργιούδης, Π.Ρεντζεπέρης, Ι.Υάκινθος, Α.Λιόλιος, Μ.Χαρδάλας, Σ.Δεδούσης, Χ.Ελευθεριάδης, Σ.Χαραλάμπους
V’ Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ξάνθη 1989
- Γ7. **“Μελέτη της παγίδευσης των ποζιτρονίων στο άμορφο $\text{Fe}_{40}\text{Ni}_{40}\text{B}_{20}$ ”**
Α.Λιόλιος, Σ.Δεδούσης, Μ.Χαρδάλας, Σ.Χαραλάμπους
VII Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Θεσσαλονίκη 1991
- Γ8. **“Positron annihilation studies in NTD Cz Si”**
M.Chardalas, S.Dedoussis, C.Eleftheriadis, T.Lagouri, A.Liolios, K.Nikolopoulos, S.Charalambous, X.T.Meng
12th Greek-Bulgarian Symposium on Semiconductor and Solid State Physics, Thessaloniki 1991
- Γ9. **“Μελέτη του NTD Cz Silicon με εξαύλωση ποζιτρονίων”**
Χ.Ελευθεριάδης, Α.Λιόλιος, Θ.Λάγουρη, Χ.Τ.Μeng, Σ.Δεδούσης, Μ.Χαρδάλας, Σ.Χαραλάμπους
Η’ Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ιωάννινα 1992
- Γ10. **“Μελέτη του υπεραγωγού $\text{YBa}_2\text{Cu}_3\text{Cd}_x\text{O}_7$ με εξαύλωση ποζιτρονίων”**
Α.Λιόλιος, Σ.Δεδούσης, Χ.Ελευθεριάδης, Ε.Μουχτάρη, Κ.Νικολόπουλος, Α.Παπαδημητρίου, Μ.Χαρδάλας, Σ.Χαραλάμπους
Η’ Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Ιωάννινα 1992
- Γ11. **“Positron Annihilation in NTD FZ Silicon”**
P.Askounis, S.Charalambous, M.Chardalas, S.Dedoussis, C.Eleftheriadis, A.Liolios
13th Greek - Bulgarian Symposium on Semiconductor and Solid State Physics, Thessaloniki 1993

- Γ12. **“Μελέτη με εξαΰλωση ποζιτρονίων του υπεραγωγού υψηλού Tc $YBa_2Cu_3O_x$ ”**
Θ.Λάγουρη, Σ.Δεδούσης, Χ.Ελευθεριάδης, Α.Λιόλιος, Μ.Χαρδάλας, Σ.Χαραλάμπους
Θ’ Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Πάτρα 1993
- Γ13. **“Επίδραση της ατμόσφαιρας ανόπτησης στα χαρακτηριστικά θερμοφωταύγειας του $LiF:Mg,Cu,P$ ”**
Α. Λιόλιος, Γ. Κίτης, G.G. Cai
ΙΓ’ Πανελλήνιο Συνέδριο Φυσικής Στερεάς Κατάστασης, Θεσσαλονίκη 1997
- Γ14. **“Construction of MDT chambers”**
Α. Λιόλιος (Thessaloniki ATLAS Muon Group)
HEP 2003, Current Developments in High Energy Physics and Cosmology,
Αθήνα 2003
- Γ15. **“Earth’s Minerals as time-integrated detectors for Axions”**
Α. Λιόλιος, Κ.Ζιούτας, Γ.Κίτης, Γ.Πολυμέρης, Ν.Τσιρλιγκάνης
HEP 2006, Recent Developments in High Energy Physics and Cosmology,
Ιωάννινα 2006
- Γ16. **“The ongoing search for Solar Axions with CAST”**
Α. Λιόλιος (for the CAST collaboration)
XXVI Workshop on Recent Developments in High Energy Physics and Cosmology,
Αρχαία Ολυμπία, 16-19 Απριλίου 2008
- Γ17. **“CAST- 10 years”**
Α. Λιόλιος
XXVIII Workshop on Recent Developments in High Energy Physics and Cosmology,
Θεσσαλονίκη, 25-28 Μαρτίου 2010