Athanasios Manousos

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Personal Information

Father's Name	Dimitrios
Date of Birth	November 04, 1988
Place of Birth	Kavala, Makedonia, Greece
Nationality	Hellenic
Marital Status	Single

Current Position

Undergraduate Student
School of Physics
Nuclear and Elementary Particle Physics Department
Aristotle University of Thessaloniki, Greece

Education

2006 - now   **B.S. Ptychion (4-year Bachelor) in Physics**
School of Physics
Nuclear and Elementary Particle Physics Department
Aristotle University of Thessaloniki, Greece.
Webpage: http://www.physics.auth.gr

GPA until now: 7.9 out of 10.0; full grade's transcript attached

Undergraduate Thesis

Title	Monte Carlo Simulations in Cherenkov Telescope Array (CTA)
Supervisors	Professor Christos Eleftheriadis, Professor Anastatios Liolios
Area of Study	Astroparticle Physics, CTA (Cherenkov Telescope Array), Monte Carlo Simulations with Corsika, Sim_Telarray and ROOT

2003 - 2006   **Secondary Education**
Graduated from 1st High School of Kavala, Greece
Graduation date: June 2006
GPA: 18.6 out of 20.0; full grade's transcript attached

2000 - 2003   **Secondary Education**
Graduated from Experimantal Gymnasium of Kavala, Greece
Graduation date: June 2003
GPA: 19.6 out of 20.0; full grade's transcript attached

Languages

Greek	Excellent (native)
English	Excellent
French	Fluent

Academic Experience

January 2008 to -

Teaching Assistant - School of Physics

Teaching Assistant in the Applied Informatics Lab of School of Physics

Provided in-class support to first-year undergraduate students.

Assisted in organizing the lab and teaching the students.

Webpage: http://mater.physics.auth.gr/pclab

Technical Skills

Extensive hardware and software experience in programming and scientific packages.

Operating Systems

All Microsoft operating systems, Unix, All Linux Distributions, BSD / FreeBSD, MacOS X

Programming Languages

Procedural	C, Fortran
Object-Oriented	C++, Python, Java
Visual	Visual C++
Shells-Scripts	C, Bourne, Bash, MS-DOS, JavaScript, Phython
Web	HTML

Tools

Administration	Apache
Data-Base	mySQL, Oracle SQLPlus™
Scientific	Wolfram Mathematica™, Mathworks MATLAB™, Mathworks MATLAB™Toolboxes, OriginLab Plot, GNU Octave, GnuPLOT
	Geant4 Simulation Package, ROOT System, FLUKA, Corsika, Sim_Telarray
Instrumentation and Control	Mathworks MATLAB Simulink, LabVIEW and other NI programs

Office Automation

T_EX, L^AT_EX, B_{IB}T_EX, Microsoft Office™

Scientific Interests

Particle and Astroparticle Physics

Particle and Radiation Detector Development

Gamma Ray Astronomy

High and Very-high Energy Gamma-Ray and Cosmic-Ray Astronomy:
Gamma-Ray Bursts, Cosmic Rays, Magnetars, Dark Matter
CTA (Cherenkov Telescope Array) Project.
CTA stands for an initiative to build the next generation ground-based gamma-ray instrument, which is supposed to serve as an open observatory to a wide astrophysics community and which will provide the deepest ever insight into the non-thermal high-energy universe.
Webpage: http://www.cta-observatory.org

CAST Experiment	**Joined to the CAST experiment (CERN Solar Axion Telescope)**. CAST uses a LHC prototype magnet with a field of $B = 9.0T$ in the interior of two parallel pipes of length $L = 9.26m$. 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 data taking and data analysis. Webpage: http://cast.web.cern.ch/CAST/
Nuclear Astrophysics	**nTOF (neutron Time-Of-Flight Facility)** Project at CERN. nTOF is a neutron source that has been operating at CERN since 2001. It is a unique facility in which neutrons are produced in a wide range of energies and in very intense beams. This allows precise measurements of neutron related processes that are relevant for several fields. One example is nuclear astrophysics where data produced by nTOF are used to study the ordinary stellar evolution as well as supernovae. Intense neutron beams are also critical in the studies of processes of incineration of radioactive nuclear waste and for a better understanding of the effects of radiation in the treatment of tumors with beams of hadrons (hadrontherapy). Webpage: https://twiki.cern.ch/twiki/bin/view/NTOF/

PRESENTATIONS

The following presentations are available through my homepage:

[1] "**Introduction to ROOT**"
29 June 2010, Nuclear and Elementary Particle Physics Department
School of Physics, Aristotle University of Thessaloniki, Greece

[2] "**Energetic axion-like particle production in galaxies**"
8th International Workshop on Identification of Dark Matter - IDM 2010
26-30 July 2010, University of Monpellier, France

CONFERENCES AND WORKSHOPS

The following Conferences and Workshops have been followed:

(Those marked by a * were with presentation)

[1] "**Nonlinear Science and Complexity**"
20th Summer School - Conference, 19-29 July 2007, Patras, Greece

[2] "**XXV Panhellenic Conference on Solid State Physics and Materials Science**"
20-23 September 2009, Thessaloniki, Greece

[3] "**9th Quattor Workshop**"
17-19 March 2010, Aristotle University of Thessaloniki, Thessaloniki, Greece

[4] "**XXVIII Workshop on Recent Advances in Particle Physics and Cosmology**"
25-28 March 2010, Thessaloniki, Greece
Member of the Local Organizing Committe (Webmaster)

[5] "**Low X Workshop**"
June 23-27 2010, Kavala, Greece

[6] "**8th International Workshop on Identification of Dark Matter - IDM 2010**"
26-30 July 2010, University of Monpellier, France (*)

SEMINARS

The following Seminars have been followed:

[1] "**Introduction to MatLab and Programming Technics**"
Organized by MENTOR Hellas and Aristotle University of Thessaloniki, 04 December 2009,
Thessaloniki, Greece

[2] "**Introduction to MatLab and Programming Technics**"
Organized by MENTOR Hellas and Aristotle University of Thessaloniki, 16-17 March 2010, Thessaloniki, Greece

[3] "**Computational Fluid Dynamics with ANSYS CFD, ANSYS CFX, ANSYS FLUENT (ANSYS Workbench) and ANSYS FSI - Fluid Structural Interaction**"
Organized by PhilonNet Hellas and Aristotle University of Thessaloniki, 01 March 2011, Thessaloniki, Greece

PUBLICATIONS

(* *indicates a significant contribution*)

[1] "*Energetic axion-like particle production in galaxies*", A. Manousos, A. Liolios, C. Eleftheriadis, PoS - Proceedings of Science (2010) (*)

SCIENTIFIC ACTIVITIES - EXPERIENCE

January 2008 -	Member of Astroparticle Physics Group (A.P.G.) School of Physics, Aristotle University of Thessaloniki, Greece Webpage: http://astroparticle.physics.auth.gr
December 2009 -	THALIS 2009 Research Program - Funding by Ministry of Education *The proposal has not been evaluated yet* Participation in writing the scientific proposal mainly in the subjects of Monte Carlo Simulations and other relevant tasks Webpage: http://astroparticle.physics.auth.gr/proposal.htm
2009 – 2009 Oct Nov	CERN - European Organization for Nuclear Research CAST Experiment (Participation in data taking and data analysis)
2011 – 2011 Apr May	CERN - European Organization for Nuclear Research nTOF Experiment (Participation in data taking) CAST Experiment (Participation in data taking)

OTHER ACTIVITIES - INTERESTS

Computing	Programming languages Interested in developing scientific applications, mainly for Linux environments.
Music	Playing the piano and synthesizer, almost for 15 years.
Painting	Painting with oil, watercolor and ink, for about 17 years.
Sports	Football, Swimming

REFERENCES

These persons are familiar with my professional qualifications and my character:

Associate Professor Christos Eleftheriadis
Undergraduate thesis supervisor
School of Physics   Phone:+30 2310998165
Nuclear Physics Department   Fax: +30 2310998—
Aristotle University of Thessaloniki   Email: celefthe [AT] cern.ch
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Associate Professor Anastatios Liolios
School of Physics   Phone:+30 2310998016
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Aristotle University of Thessaloniki   Email: lioliosa [AT] auth.gr
54124, Thessaloniki, Greece   Web: http://www.physics.auth.gr/people/41

Assistant Professor Mavroeidis Angelakeris

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Associate Professor Evaggelos Vanidhis

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Professor Konstantinos Paraskevopoulos

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