## Curriculum Vitae - Professor Theo Alexopoulos

Main Field of Study	Experimental High Energy Physics
Personal Information	Date of Birth: 01 May 1960
	Place of Birth: Egaleo, Athens, Greece
	Family Status: Married
	Nationality: Greek
Education	Military Service: Armored Greek Army Forces Ph.D. in Physics, University of Wisconsin, Madison, 05.91
Education	MSc in Physics, University of Wisconsin, Madison, 05.87
	Graduate Studies at National Nuclear Center "Demokritos", 12.84
	B.Sc. in Physics, National & Capodistrian University of Athens, 05.83
Academic Positions	Professor of Physics, National Technical University of Athens, 04.09 to present
	Associate Professor of Physics, NTU Athens, 08.2000 to 03.2009
	Collaborating Faculty Member of the Hellenic Open University, 10.01 to present
	Corresponding Associate at CERN at various time periods
	Assistant Scientist, University of Wisconsin, Madison, 08.94 to 07.00 Research Associate, University of Wisconsin, Madison, 07.91 to 07.94
	Graduate Research Assistant, University of Wisconsin, Madison, 01.85 to 05.91
	Fellow at National Center for Scientific Research "Demokritos", 10.82 to 12.84
Teaching Experience	Undergraduate Courses: Designed and taught/teaches various undergraduate courses
	• Mechanics
	Introduction to Particle Physics
	• Electromagnetism
	Quantum Mechanics
	Signal Analysis
	Pattern Recognition & Neural Networks
	Electronics & Laboratory
	Laboratory Courses:
	Electronics lab     Physics II (Floatromognetism) laboratory for Engineers
	<ul> <li>Physics II (Electromagnetism) laboratory for Engineers</li> <li>Computational Physics, PC-lab</li> </ul>
	Physics I (Mechanics) for engineers
	Physics III (Wave mechanics) for Physics science students
	Graduate Courses:
	• Instrumentation
	Radiation Technology
Awards & Honors	Greek delegate at the ECFA (European Committee for Future Accelerators).
	Greek representative at the ESFRI for the Physics & Engineering section
	Corresponding Associate at CERN of a14 month period in total.
	Research Assistant at the University of Wisconsin, Madison. Fellowship University of Wisconsin, Madison, 07.91 to 07.94.
	Fellowship of the Greek National Fellowship Foundation, 79 to 81
Student Supervision	Diploma Theses: 51, Masters Theses: 17, Ph.D. Theses: 5
<b>Departmental Activities</b>	Head of the Physics Department Graduate Student Committee.
	Head of the qualifying exam committee of the Physics Department.  Member of the peer reviewing committee for scientific proposal at the Cyprus Research Center.
	Member of various University committees.
Research Grants	Involved in five research grants as a Principle Investigator
Books	Authored or co-authored 12 university textbooks in Greek and English language
	Introduction to Signal Analysis
	Signal & Systems (Problems)
	<ul> <li>Wave Mechanics, Quantum Mechanics, Statistical Mechanics, Examples &amp; Problems</li> </ul>
	<ul> <li>Electricity &amp; Magnetism, translation of the University of California Berkeley physics</li> </ul>
	series textbook, by E.M. Purcell
	Statistical Pattern Recognition
	Introduction to Mechanics (Problems)
	Introduction to Electromagnetics (Problems)  Little Little Control Contro
	Introduction to Elementary Particles  Output  Out
	Introduction to Quantum mechanics with a Short Introduction to Analytical Mechanics     Mathematics for Physical Sciences
	Mathematics for Physical Sciences     Problems in Machanics at Craduate Level
	Problems in Mechanics at Graduate Level     Introduction to Electronics
Seminars & Talks	<ul> <li>Introduction to Electronics</li> <li>Total of 42 talks at various conferences and University colloquium/seminar programs.</li> </ul>
Schillars & Taiks	Total of 14 outreach talks and seminars. More information on the latest invited talks is included in n
	pages.
	Member of 10 international conferences/symposia organizing committees.

Major Responsibilities	&MAMMA R&D Collaboration (2008 to present):
Coordination	Co-responsible of the NTU Athens team
	<ul> <li>Co-responsible of the MAMMA test beam at H6/CERN</li> </ul>
	<ul> <li>Co-responsible of the MAMMA test beam at "Demokritos"</li> </ul>
	ATLAS/CERN Experiment (2001 to present):
	<ul> <li>Co-responsible of the DCS MDT test beam at H8</li> </ul>
	NSW & MUON System DCS coordinator
	<ul> <li>Co-responsible of the HV/LV DCS MDT &amp; CSC of ATLAS Experiment</li> </ul>
	Co-responsible of the Greek teams for the micromegas upgrade of the
	small wheel of ATLAS Experiment
	Coordinator of the Greek consortium for integration and installation of the
	BIS (Barrel Inner Small)-MDT chambers of the ATLAS experiment
	<ul> <li>Co-Coordinator of the NTU Athens laboratory site of the BIS-MDT Chambers.</li> </ul>
	Co-responsible of the NTU Athens GRID PC farm
	Minos/FNAL Experiment (1999-2000, eight month period):
	Level-3 (coordinator) manager of the Detector Control System (DCS)
	KTeV/FNAL Experiment (1994-2000):
	Coordinator of the DCS system
	Coordinator of the electronics system of DCS
	Design & built the L1 hit-OR of the KTeV experiment wire chambers
	• Co-responsible of the hyperon physics analysis group
	E771/FNAL fixed target Experiment (1992-1994)
	Built the luminosity telescope of the experiment
	Design and built interface cards for the pad chambers  (1/2) A D D D D D D D D D D D D D D D D D D
	• Study the two body decays $(K^0, \Lambda)$ to associate them with $J/\Psi$ 's to study $B_s$
	Technical Activities at the HEP laboratory of University of Wisconsin, Madison
	Coordinator of the Unix cluster system  Developed a minute system to the Wisconsin Contactor for
	Developed a micro-gap gas chamber utilizing the Wisconsin Center for  Applied Microelectronics
	Applied Microelectronics  Run beam test to study Cherenkov counter at Brookhaven National Laboratory
	• Run beam test to study Cherenkov counter at Brookhaven National Laboratory E735/FNAL Experiment (thesis experiment, 1986-1991):
	Built various types of wire drift chambers (magnet and vertex chambers)
	Wrote part of the experiment tracking program
	Wrote part of the experiment tracking program     Wrote a homemade Monte Carlo program that used at various analysis
	Analyzed data introducing the neural network techniques for resonance
	searches
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	Research Experience before graduate school
	Study the ALEPH TPC prototype at CERN as a student
	Use numerical Monte Carlo techniques to study the magnetic field of a
	magnet
	Study heavy-ion interactions as part of my senior thesis
Publications	390 published journal papers
	101 internal reports
	43 proceeding papers
Various Activities	Member of the School of Applied Sciences assembly 2002 to present
	President of the Hellenic Society for the Study of High Energy Physics, 2013-2014
	President of the Hellenic Society for the Study of High Energy 2013-2014
	Member of the board of directors of the Hellenic Society for the Study of High Energy  No. 2004 2005 2011 2013
	Physics, 2004–2005, 2011-2013
	Member of several hiring committees of various Greek Universities

## **Most Cited Papers**

- "Observation of a New Particle in the Search for the Standard Model Higgs Boson with the ATLAS Detector at the LHC", G. Aad, et.al., Phys. Lett. B716 (2012) 1-29
- "The ATLAS Simulation Infrastructure", G. Aad, et. al. Eur. Phys. J C70 (2010) 823-874
   "Expected Performance of the ATLAS Experiment Detector, Trigger and Physics", G. Aad, et. al., arXiv:0901.0512
- "The ATLAS Experiment at the CERN Large Hadrn Collider", G. Aad, et. al. JINST 3(2008) S08003
- 5. "Observation of Muon Neutrino Disappearance with the MINOS Detectors and the NuMI Neutrino Beam, D.G. Michael, et al., Phys. Rev. Lett. 97 (2006) 191801
- "Observation of Direct CP Violation in  $K(S,L) \rightarrow \pi$   $\pi$  Decays", A. Alavi-Harati, et. al., Phys. Rev. Lett 83 (1999) 22-27.