Curriculum Vitae
Dr Stavros MALTEZOS

Place and date of Birth :	Rhodes - Greece, October 16, 1951
Current Scientific Position :	Associate Professor at School of Applied Sciences - Physics Department, National Technical University of Athens (NTUA) (from 2013-today).
Administrative Position :	Director of Physics Department in School of Applied Mathematics and Physical Scinces of NTUA (from 2017-today).
Mail Address :	School of Applied Sciences - Physics Department National Technical University of Athens GR-15780 Zografos, Athens, Greece
E-mails / Home Page :	maltezos@central.ntua.gr , Stavros.Maltezos@cern.ch http://www.physics.ntua.gr/Faculty/maltezos
Telephone / Fax :	+3010 772 3026 / +3010 772 3021
Education :	Ph.D in Experimental Physics, National Technical Univ. of Athens (1995). BS & MS in Electrical Engineering, National Technical Univ. of Athens (1982). BS in Electronics, Inst. of Technology-Athens (1976). Languages: Greek (mother-excellent), English (very well), French (well).
Honors :	Fellowship from Greek National Fellowship Foundation, 1st pos. (1981). Fellowship from Greek National Fellowship Foundation, 1st pos. (1976).
Academic Experience :	Associate Professor, at National Technical University of Athens, (from 2013). Assistant Professor, at National Technical University of Athens, (2005-2012). Lecturer, at National Technical University of Athens, (1999-2004). Research Assistant, at National Technical University of Athens (1995-1998). Graduate Research Assistant, National Technical Univ. of Athens (1982-1995). Staff Engineer, Physics Dep. of National Technical Univ. of Athens (1980-1988).
Supervising :	Ph.D 3, Ph. D Adv. Com. 10, Dipl. Grad. Works 10, Dipl. Works 25.
Teaching Activity :	Undergraduate theor. courses: 6, Graduate theor. courses: 2 in NTUA (1999-today). Laboratory exercises: more than 60 in NTUA (1982-2004).
Writing Author :	Scientific Books: 2, Educational Notes: 14.
Responsibilities :	Responsible for the Gas System of NSW Micromegas and gas QC/QA at CERN. (from 2013). Responsible for the Gas Systems of ATLAS-MDT QA_QC (2000-2005). Co-responsible for the DELPHI RICH Gas Refractometer, CERN (1996-2000).
Research Activities and Experience :	ATLAS at LHC accelerator, CERN (from 1999). RD51 at CERN (2007). CTA Observatory (2009-2013). Pierre AUGER Project (1996-2011). DELPHI at LEP accelerator, CERN (1988-2001). NA-14 & NA14-prime at SPS accelerator, CERN (1981-1987).
Publications :	Publications in International Journals: 947, Citations: 91874, h_{HEP} index: 136 Internal Notes & Reports: 56. Publications in International Conference Proceedings: 98, Seminars & Talks: 60. Participation in Research Programs: 16 (Main contrib. in 6, Main researcher in 1).
Conference Committee :	Member of local scientific committee of European Inst. Of Science and Applications (EISA) 2010-2016.
Computer Experience :	Operating Systems: UNIX, VMS, PC (Windows, Linux), Linux Computer Languages: BASIC, FORTRAN, Pascal, Assembly, C, C++ Programming Commercial Tools: MATLAB, PAW, ROOT, EXCEL, AUTOCAD Software Development: Data analysis and Monte Carlo simulations, Optical filter design my Simulating Annealing, 2-D/3-D Graphics.
Publications in Scientific Journals (peer-reviewed) (Selected and relevant to the Proposal) :	1. By ATLAS Collaboration (G. Aad et al.), "*Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC*" arXiv:1207.7214 [hep-ex], Phys.Lett. B716 (2012) 1-29. 2. The CTA Consortium, "*Design Concepts for the Cherenkov Telescope Array CTA*", Instrumentation and Methods for Astrophysics - arXiv:1008.3703v2[astro-ph.IM], 2011. URL: http://arxiv.org/abs/1008.3703. Exp. Astron. (2011) 32 : p 193–

	316, DOI 10.1007/s10686-011-9247-0. 3. T. Alexopoulos, R. Avramidou, E. Dris, A. Filippas, E. N. Gazis, E. C. Katsoufis, S. Maltezos, P. Savva, G. Stavropoulos, G. Tsipolitis, "*A Gas Leak Rate Measurement System for the ATLAS MUON BIS-Monitored Drift Tubes*", Nucl. Instr. Meth. A 521 (2004) 332-342. 4. T. Alexopoulos et al., "*Study of a micromegas chamber in a neutron beam*", Prepared for 1st International Conference on Micro Pattern Gaseous Detectors (MPGD 200e-Print: arXiv:1003.3124 [hep-ex] 9), Kolympari, Chania, Crete, Greece, 12-15 Jun 2009. Published in JINST 5:P02005, 2010. 5. T.A. Filippas, E. Fokitis, S. Maltezos, K. Patrinos, M. Davenport, "*Precision measurements of gas refractivity by means of a Fabry-Perot interferometer illustrated by the monitoring of radiator refractivity in the DELPHI RICH detectors*", Nucl.Instrum.Meth.B196:340-348, 2002.
Publications in Conference Proceedings (Selected and relevant to the proposal) :	1. T. Alexopoulos, E. N. Gazis, S. Maltezos, V. Gika, S. Vlachos, A. Antoniou, S. Karentzos, G. Koutelieris, P. Moschovakos, "*Design of the ATLAS New Small Wheel Gas Leak Tightness Station for the Micromegas Detector Modules*", 2016 IEEE NSS/MIC, Strasbourg, France, 29 October – 5 November 2016. 2. E. N. Gazis, T. Alexopoulos , S Maltezos , S. Vlachos , E. Karentzos , A. Koulouris, G. Koutelieris , A. Antoniou , V. Gika , P. Moschovakos, "*Design of the ATLAS New Small Wheel Gas Distribution System for the Micromegas Detector Modules*'', Fourth Annual Large Hadron Collider Physics 13-18 June 2016, Lund, Sweden. 3. N. Maragos, S. Maltezos, E. Fokitis, P. Fefatzis, V. Gika, Y. Manthos, D. Kastana, M Kombitsas. "*Design Aspects and Characterization Tests of a Multi-Wavelength Beam HSRL for Atmospheric Monitoring in Ultra High Energy Observatories*", Presented by N. Maragos at ICRC 2011 (8/2011), China. 4. S. Maltezos, E.Fokitis, V.Gika, N. Maragos, G. Koutsourakis, E. Koubli and A. Aravantinos, "*Atmospheric Monitoring for Very High Energy Gamma Energy Cherenkov Telescopes based on HSRL: Development of High Accuracy Non-Invasive Etalon Characterization Techniques*'', Nuclear Physics B Proceedings Supplements, Volume 215, Issue 1, pp 265-268 (2010). 5. E. Fokitis, V. Gika , P. Fetfatzis, S. Maltezos, I. Kouretis and N. Antonakakis Spyropoulos, "*Plasma Source for the Emulation of the Atmospheric Fluorescence Produced by the Secondaries of Ultra High Energy Cosmic Ray Particles*'', Journal of High Temperature Material Processes, Volume 13, Issue 3, 2009, pp 323-328.
Research Achievements (supporting the proposal)	From 2007 I was involved to the Micromegas new gas detector's technology development at CERN. I have participated in more than 14 test beam activities for performance testing of different types of Micromegas detectors. From 2012 this detector's technology has been approved to be used in the ATLAS Muon Upgrade replacing the Small Wheels with the New Small Wheels (NSW). In this complicate project, working with the NTUA Team, I was involved mainly in the gas distribution system of the NSW detector systems. In this project we had undertaken the responsibility to propose the appropriate configuration and the associated individual gas splitting components. Moreover, I was focusing to the problem of the gas sealing studies of the Micromegas Quadrulets (MM QP). In this frame, my contribution was the introduction of a novel method for measuring the gas tightness of the detectors, called Flow Rate Loss, by which has been proved to be the most appropriate, accurate and reliable method during the integration of the MM QPs. Moreover, by a theoretical study based on the Contact Mechanics theory, I have determined the feasible gas sealing of the MM QPs. Recently, my contribution was the theoretical and experimental study of the effect of the air mole concentration into the gas mixture of the MM QPs and its effect causing a drop-off to the gas gain.