

## Nikolaos MANTHOS (short CV-2017)

Date and place of birth: 25-5-1956, Ioannina, Greece.  
Marital Status: Married, 2 children.

Education: 1. Diploma in Physics (1980), University of Ioannina, Physics Department.  
2. Ph.D. in Physics (1990), University of Ioannina, Physics Department.

Current Employment: Associate Professor (2004-today),  
University of Ioannina, Physics Department.

Research field: Experimental High Energy Physics.  
e-mail: [nmanthos@uoi.gr](mailto:nmanthos@uoi.gr), [manthos@cern.ch](mailto:manthos@cern.ch)

### Previous Employment:

1. 1980-1990: Research associate, University of Ioannina, Physics Department.
2. 1985-1986: Military services.
3. 1986-1988: Visitor at Fysicum, Stockholm University, Sweden.
4. 1991-1995: Lecturer, University of Ioannina, Physics Department.
5. 1993 and 2007: Corresponding Fellow, CERN-EP, Geneva, Switzerland.
6. 1980-today: Unpaid Associate, CERN-EP, Geneva, Switzerland.
7. 1995 – 2004: Assistant Professor, University of Ioannina, Physics Department.

### RESEARCH ACTIVITIES – Areas of Expertise-Research Experience:

- Participation in high energy physics experiments at CERN (Geneva). In particular, participation in UA5, CPLEAR, DIRAC and CMS experiments. The research activities include development of detection systems based on Si sensors, development of electronics and microelectronics for Si sensors, biomedical, environmental and security electronics and applications, development of trigger and DAQ systems, I-V, C-V characterization of semiconductor devices, VLSI design, test and measurement applications, event and detector simulation and data analysis.
- Participation in the FP2-TELEMAN II, FI2T-CT90-0015, Laser scanning for circulation in hazardous environment or for space sensing from a 2D TV perception with adjustable window for the 3D scanned network (1990-93, EdF/FR, Bertin et Cie/FR, Etnoteam/IT, Uoi/GR, INITEC/ES), in BIOMED II, Biomedical Radiography and Radioscopy Using Silicon Microstrip Sensor (brsms), BMH4-CT96-1119 (1996, Uoi/GR, Etnoteam/IT, ACTA/NL, UCL/UK, IC/UK), in LSF (TMR), in C-V, I-V test and measurements in Si semiconductor devices, in LSF NMRC, Cork, Ireland 1997 and 1998, in FP6-NMP, Intelligent Imaging Sensors for Industry, Health & Security, I-ImaS, NMP2-CT-2003-505593 (2004-2006, UCL/UK, IC/UK, RAL/UK, Uoi/GR, ACTA/NL, ANKO/GR, CTI/GR, SINTEF/NR, UoT/IT) and in IPA CBP GR-AL 2007-2013, Wireless Water Quality Monitoring of Arachthos and Vjose Rivers (wwqm\_avr), (2012, Uoi/GR, UoV/AL), Coordinator.
- Participation in more than 10 GSRT research programs: Experiments Uoi-CERN (1984-88), Development of electronic systems for HEP experiments (1990-91), Development of CAD-CAM, PLC-CIM (1992-1994), Annual working trips to CERN (1990-2005), Greek Collaboration for the CPLEAR experiment at CERN (1991-1994), Simulation of Silicon microstrip sensors and electronic design for the CMS experiment (1996-97), EPET II, EKBAN-P (#P-79), Development of a system for tele-monitoring of water resources (1996-2000), EPET II (476, ΒΜΠ), Development of microelectronic industrial products (1996-1999). EPET II-98MIK-25, Development of a DAQ system for Si microstrip detectors (1999-2001), Coordinator. EPET II-98MIK-10, Design, development and test of Si sensors (1999-2001), group coordinator. EPET II, 98 MIK - 2: Development of a trigger-DAQ system of detector constructions in HEP experiments (1999-2001). EPEAEK II-Heraclitus, Development of a trigger signals generator and noise reduction circuits in digital signals in HEP experiments (2002-2007). Coordinator.
- More than 700 scientific publications in international scientific journals with more than 15000 citations (h index=55).

### TEACHING EXPERIENCE.

- More than 35 years teaching at University of Ioannina, Physics department undergraduate (general, high energy physics - electronics) and post graduate programmes, supervisor in more 5 PhD thesis and in more than 15 Post graduate Diploma thesis.