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IInstitute of Accelerating Systems & Applications - IASA www.iasa.gr

Evangelos Gazis

Prof. Experimental Particle Physics
National Technical University of Athens – NTUA
Deputy Director of IASA

Team Structure

- Dr. Eleni Adamidi, MSc Applied Physicist, PhD Electrical & Computer Engineering, NTUA
- Dr. Thalia Xenofontos, MSc Applied Physicist NTUA, PhD Nuclear Engineering, AUTH & Ecole Polytechnique, Paris
- Ms Maria Kainourgiaki, MSc Electrical & Computer Engineering, NTUA
- Prof. Evangelos Gazis, NTUA/IASA

The Institute of Accelerating Systems and Applications (IASA) is a unique institution founded by the cooperation of the two oldest and famous universities in Greece:

National & Kapodistrian University of Athens (NKUA)



The Institute is affiliated with six university departments:

NKUA	NTUA
Medicine	Electrical & Computer Engineering
Physics	Chemical Engineering
Informatics	Applied Mathematical & Physical Sciences

Activities

IASA is open to researchers from the international community and access. It is determined purely on scientific merit.

IASA is currently engaged in Research projects in the following areas, with more than 50 EU projects, currently, in operation:

- Nuclear and Particle physics
- Nuclear medicine and imaging
- Accelerator Science & Engineering
- Automated Control
- Scientific Computing
- Environmental Physics
- Microwave Engineering
- Telecommunications
- Science for Education and Society
- Outreach of Science and Engineering
- Knowledge & Technology Transfer



IASA Experience and Contribution

A long experience from 2000, on transferring Nuclear and Particle physics research results to → High School Teachers (HST) and High School Students (HSS),

- > Lectures, seminars, training summer schools for HST
- ➤ lectures, seminars, CERN Masteclasses, summer schools for HSS

in cooperation with:

- CERN-Education Division,
- Greek Ministry of Education,
- Filekpedeftiki Etaireia,
- Aikaterini Laskaridis Foundation,
- Perimeter Institute, Toronto, Canada,
- Hellenic Society for the Study of the High Energy Physics –EESFYE,
- Hellenic Physics Society-EEF

IASA Experience and Contribution

EESFYE/EEF	AIK. LASKARIDIS FDN
2000-2019	2017-18 & 2018-19
More than 150 lectures to high	
schools in Greece	15 lectures to high school in Attica

HST Training at CERN	HS students Summer School for CERN
2007-2019 [More than 1'000 HSTs have been trained]	NTUA-Lavrion Cultural & Technological Park, 2018 20 students, 8 Lecturers, EESFYE, EEF
	Arsakeion School, Ekali, 2019 40 students, 8 Lecturers, EESFYE, FE
To be continued on the next years	Arsakeion School, Ekali, 2020 40 students, 8 Lecturers, EESFYE, FE

IASA Experience and Contribution

The IASA-NTUA team will provide the methodology of the knowledge dissemination to the students, to be introduced to the following items:

- The fundamental building blocks of the matter and how these have been discovered
- Quarks, Leptons and Interactions
- The composition of the Universe: 4% of the known universe, and remaining questions for the rest 26% of Dark Matter and 70& Dark Energy
- Matter and Antimatter
- Accelerator Engineering, the machines of the future
- Electronics and Computer Engineering
- The GRID computing

IASA Contribution and Methodology

- Lectures
- Seminars
- Laboratories
- Summer Schools
- Internet connections
- Videos
- Special games